VOLUME XXIX
NUMBER FOUR

THE NATIONAL GEOGRAPHIC MAGAZINE

APRIL, 1916

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Panorama of the King of Trees
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Thirty-two Pages in Four Colors

The Land of the Best
A Tribute to the Scenic Grandeur and Unsurpassed Natural Resources of Our Own Country

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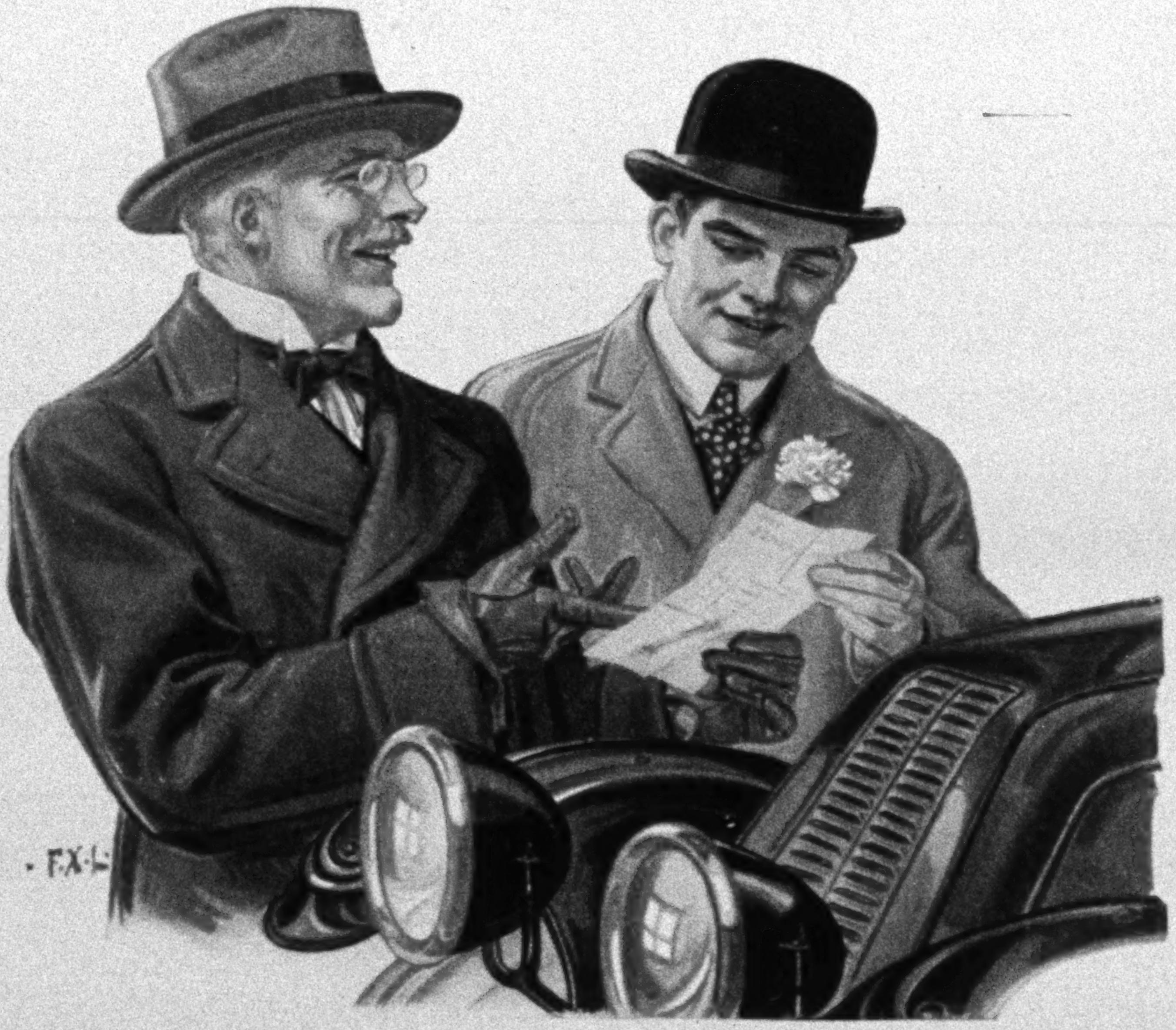

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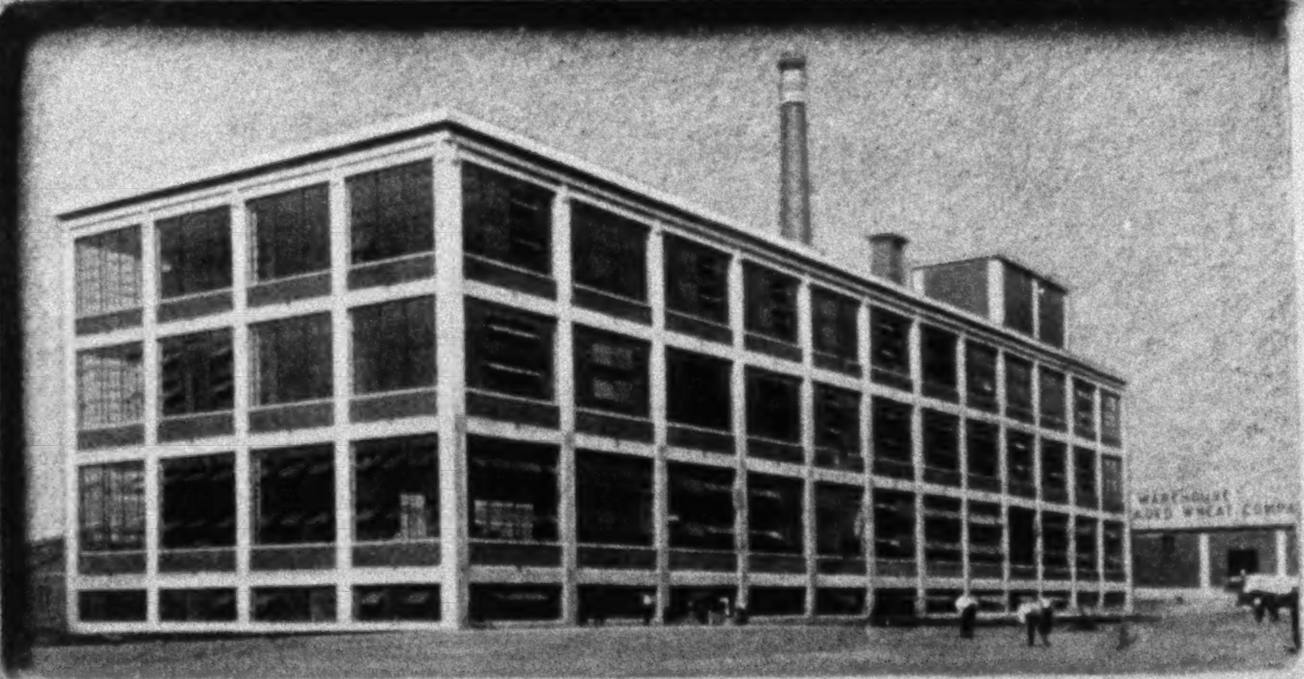

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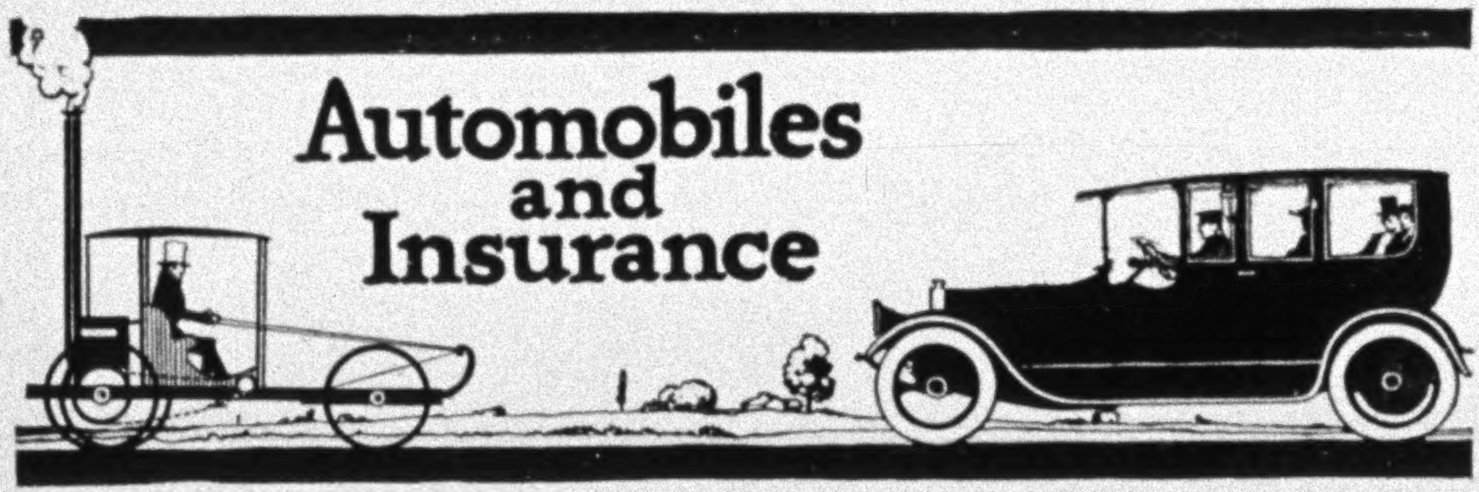

Automobiles and Insurance

Most people think of automobile insurance as an old form of protection adapted to a modern invention. As a matter of fact, the self-propelled vehicle is older than most forms of insurance. A Frenchman drove a steam carriage in the days of Marie Antoinette. An Englishman was arrested for joy-riding in 1802. In 1815 the directors of the Hartford Fire Insurance Company were amazed to see a steam locomotive snorting through the streets. We are not told whether they ever considered this strange contraption from an insurance standpoint. But we do know that almost before the motor car had ceased to be an experiment the Hartford Fire Insurance Company was offering automobile policies. Today you can insure yourself from every risk of a motor car through the complete

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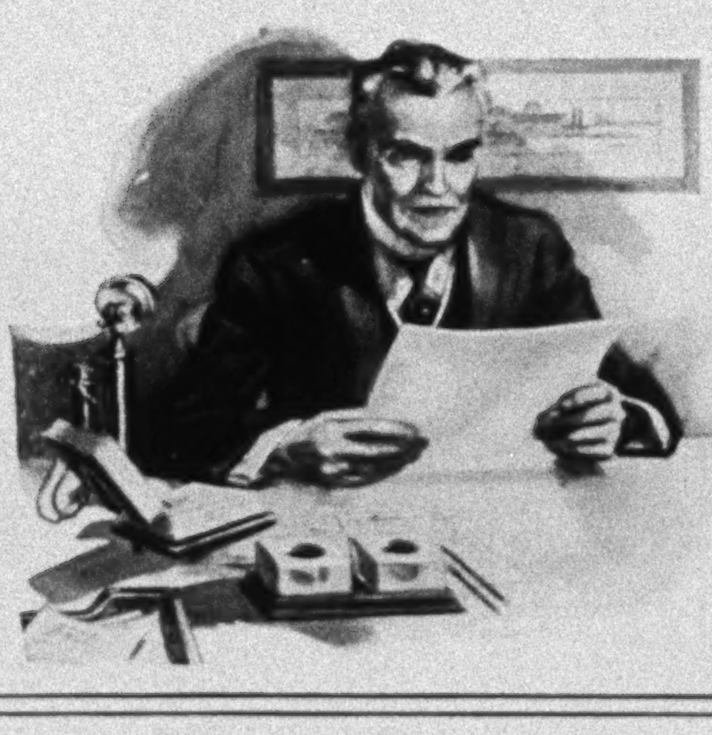

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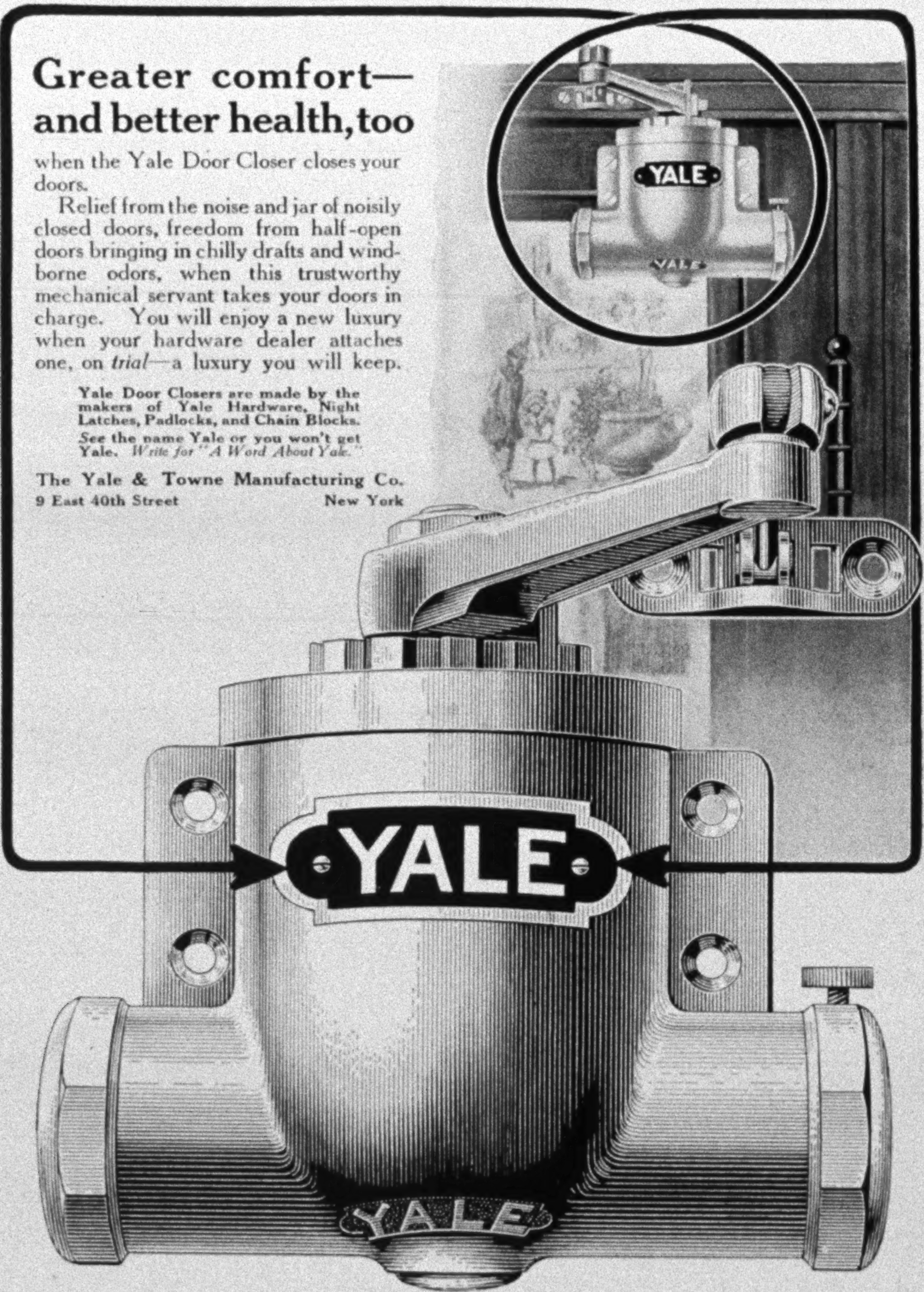

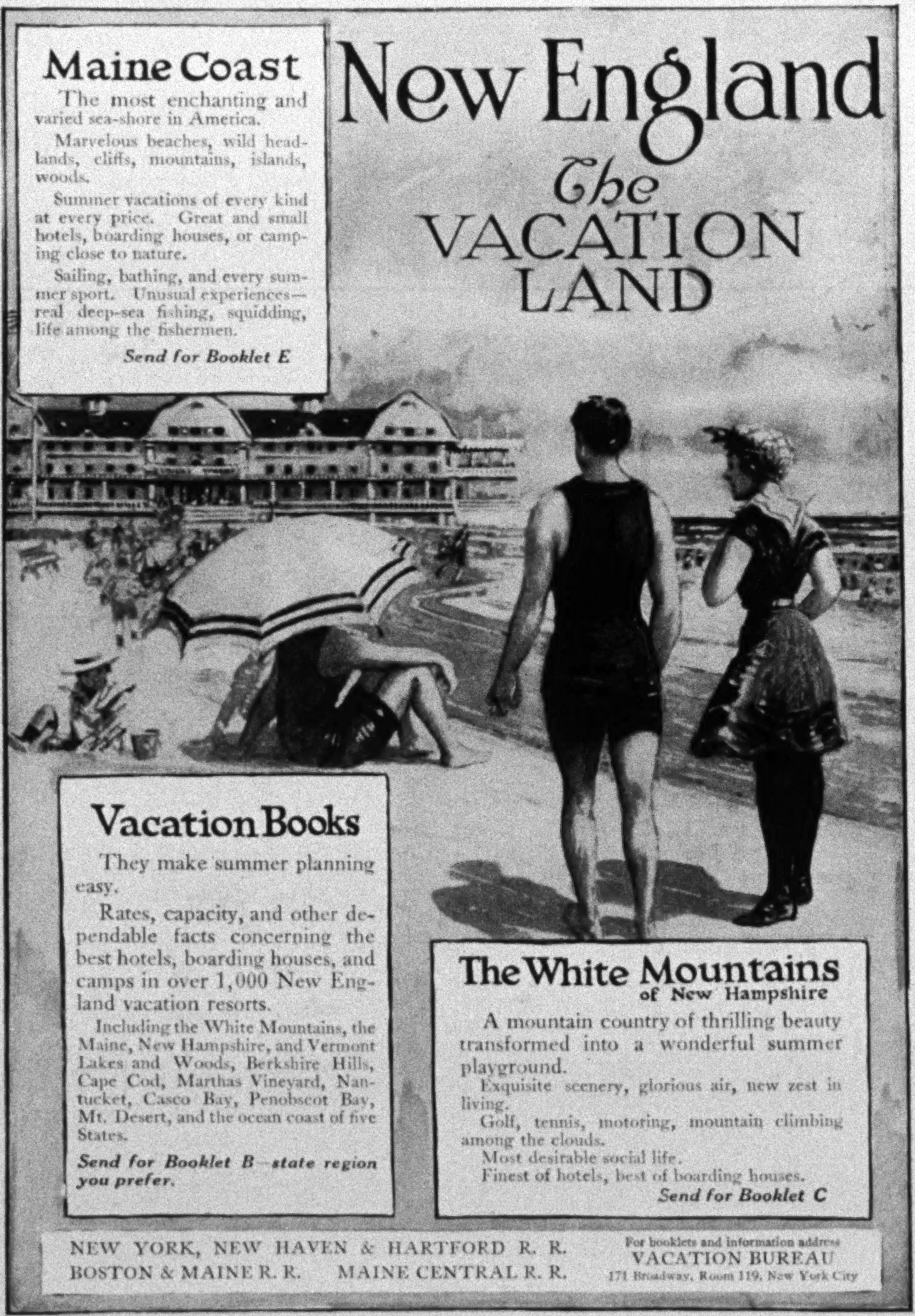

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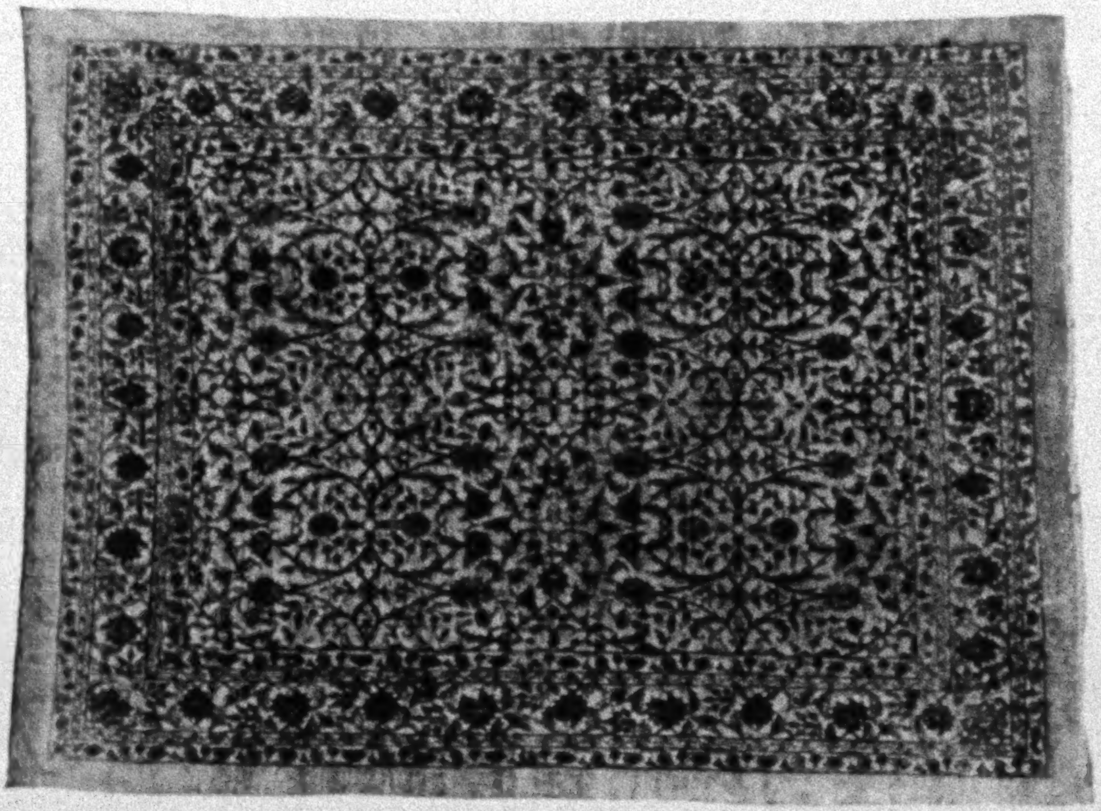

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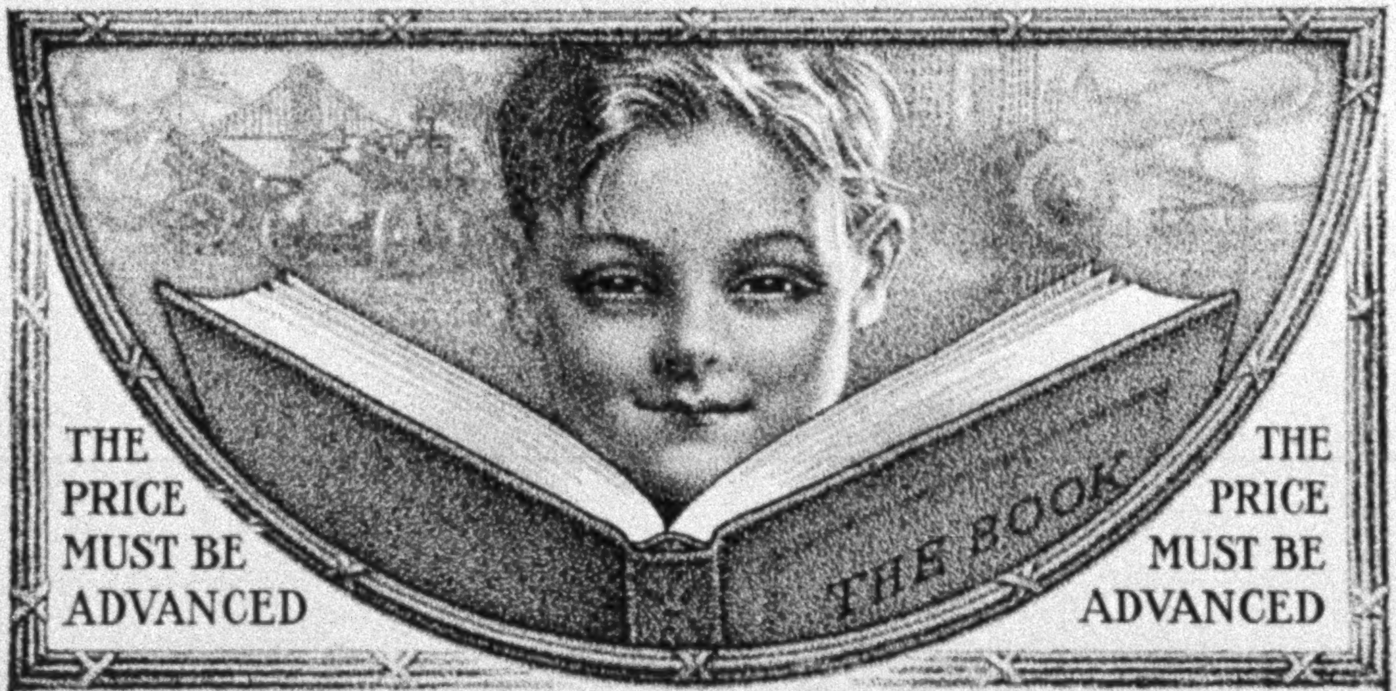
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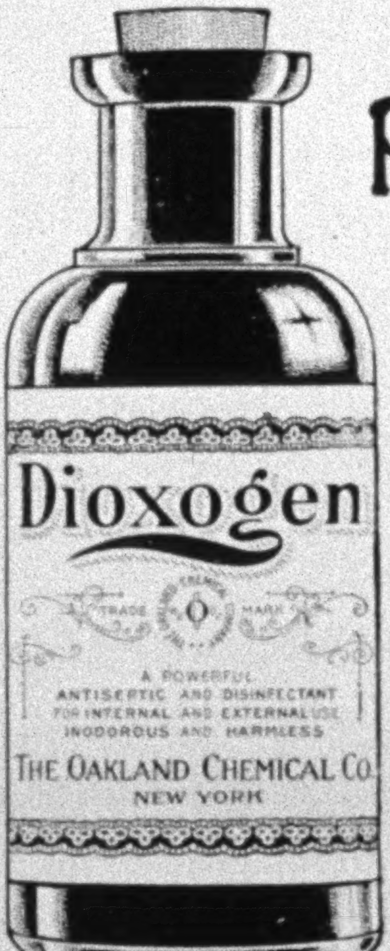

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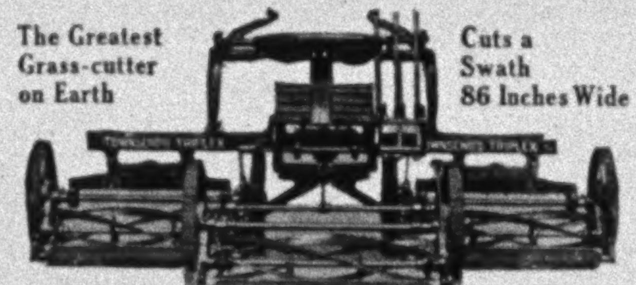

Floats Over the Uneven Ground as a Ship Rides the Waves.

One mower may be climbing a knoll, the second skimming a level, while the third pares a hollow.

Drawn by one horse and operated by one man, the TRIPLEX will mow more lawn in a day than the best motor mower ever made; cut it better and at a fraction of the cost.

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Klaxons are made only by the Lovell-McConnell Mfg. Co., Newark, N. J.

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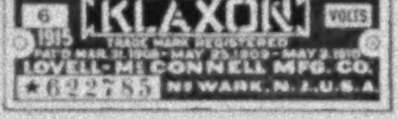

"No-Not This"

"Go Get Your Own Puffed Wheat"

Every child has dainties she dislikes to share.

You did and we did. Children always will.

And in every home that serves Puffed Wheat, that dainty is among them. We have often watched it. With a great big dish and a package full in waiting, one hates to share a taste.

Flaky, Flavory Bonbons

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Adding cream and sugar makes a breakfast dish with which nothing else compares. And they are about as delicious as a good-night dish, floated in bowls of milk.

Another pleasant fact is that at any hour one may eat his fill; for these thin, crisp morsels are simply whole wheat puffed. Every food cell has been exploded. So, beyond all other grain foods, Puffed Wheat easily digests.

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Puffed Wheat	Except in Far West	12c
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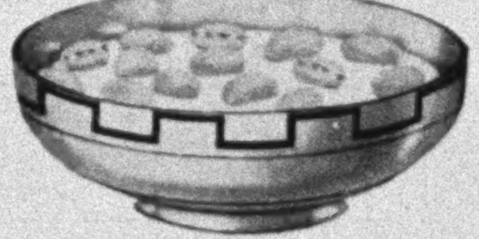
Corn Puffs—Bubbles of Corn Hearts—15c



These are the foods in which Prof. A. P. Anderson solved the problem of perfect cooking.

In other forms these grain foods are cooked or baked or toasted. Thus part of the food cells are broken, but rarely more than half.

In Puffed Grains alone is every food cell exploded. Over 100 million steam explosions are caused in each Puffed Grain. Thus every atom of every element becomes available as food.

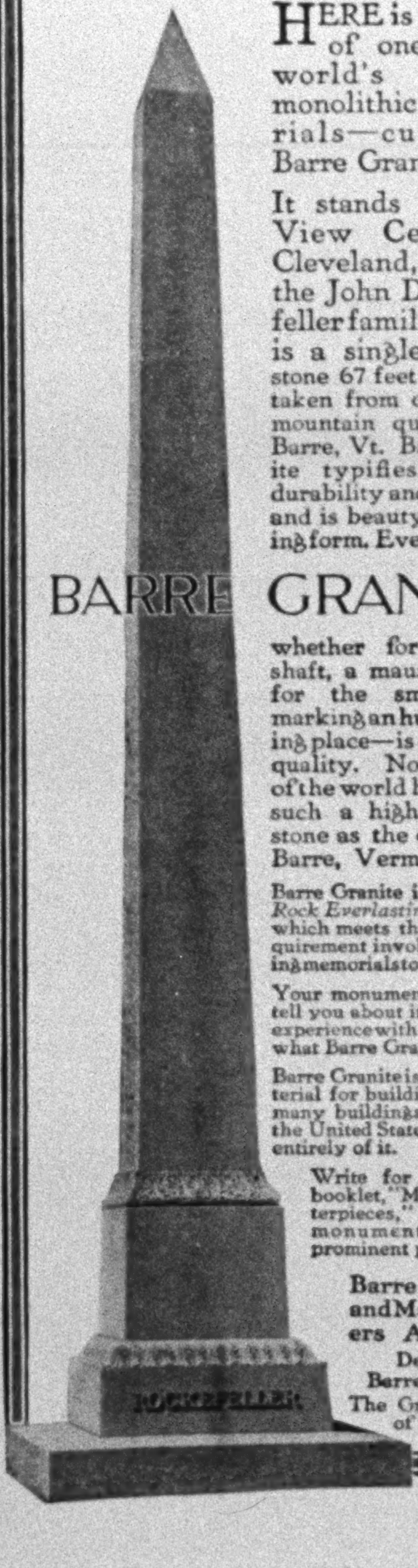
Your doctor will tell you that wheat and rice, in every way, are best when served in puffed form.

The Quaker Oats Company

Sole Makers

(1229)

XUM



The Rock Beautiful—and Everlasting

HERE is a picture of one of the world's greatest monolithic memorials—cut from Barre Granite.

It stands in Lake View Cemetery, Cleveland, Ohio, on the John D. Rockefeller family lot, and is a single granite stone 67 feet in length, taken from one of the mountain quarries at Barre, Vt. Barre Granite typifies dignity, durability and strength, and is beauty in enduring form. Every piece of

BARRE GRANITE

whether for a single shaft, a mausoleum or for the small stone marking an humble resting place—is of uniform quality. No other part of the world has yielded such a high grade of stone as the quarries at Barre, Vermont.

Barre Granite is indeed the *Rock Everlasting*—the stone which meets that sacred requirement involved in rearing memorials to the departed.

Your monument dealer can tell you about it. He has had experience with it and knows what Barre Granite is.

Barre Granite is the ideal material for building purposes, many buildings throughout the United States being built entirely of it.

Write for illustrated booklet, "Memorial Masterpieces," showing the monuments of many prominent people.

Barre Quarriers and Manufacturers Association
Dept. 8
Barre, Vermont
The Granite Center of the World

The Premier Investment

Write today for this New Book on
Municipal Bonds

A portion of every fortune should be invested in Municipal Bonds.

Thousands confine their purchases entirely to this class.

They deserve *first* consideration by the smaller investor.

This book tells why. Explains the various classes of municipals, from the obligations of large cities down to those of rural districts. Tells how safeguarded, and other facts every investor should know.

Ask also for our list of offerings No. N4, describing fifty carefully selected issues netting the investor 4% to 5½%. Address nearest office.

William R. Compton Company

Municipal Bonds

New York
14 Wall Street

St. Louis
408 Olive Street

Chicago
111 W. Monroe St.

Cincinnati
102 Union Trust Bldg.

A Garden Full of Gladioli for $1.00

The Gladiolus is one of the most satisfactory flowers grown, because it blooms continuously when it is cut and put in water, just as well as when in the ground.

There is no reason why every family cannot enjoy this grand flower, for the simple reason that it is as easy to grow as the potato.

You can have them in bloom from July to frost if you plant a few bulbs each month from April to July.

For only **ONE DOLLAR** we will send **75 Bulbs** of our **Grand Prize** Mixture, which covers every conceivable shade in the Gladiolus kingdom.

Last year we sold thousands of these bulbs and have received numerous testimonials as to their merits.

ORDER YOUR BULBS NOW, so as to have them to plant when you begin making your garden.

Simple cultural directions with every package.

Write today, mention "National Geographic Magazine," and secure this splendid collection of Gladiolus bulbs for **only $1.00,** prepaid to your home anywhere in the United States, with our **1916 Spring Catalogue.**

Stumpp & Walter Co

30 and 32 Barclay Street **New York**

6% Farm Land Bonds

So well secured
(Property valued approximately three times bond issue.)

By such excellently situated land,
(In a widely known wheat-producing district, every acre being within six miles of a railroad.)

And for such a small amount per acre,
(Only about one-quarter of the price that similar land has brought in this section.)

that the Investment is safe beyond question and suitable for investors requiring sound security and excellent yield.

Ask for Circular No. 609 D

Peabody, Houghteling & Co.
(Established 1865)
10 South La Salle Street, Chicago

The Opinion of Banks

In 1914-15 all forms of investment were subjected to a severe test.

During the year 1915 banks materially increased their percentage of holdings of Public Utility Bonds, indicating an appreciation of their superior dependability.

The record of such bonds shows them entitled to the steadily increasing confidence of all investors.

The Best Income with Safety can be derived from purchasing such bonds at present prices.

Send for List AN-36.

N. W. Halsey & Co.
49 Wall Street, New York
PHILADELPHIA CHICAGO SAN FRANCISCO
BOSTON BALTIMORE CLEVELAND

"Lazy Dollars"

Dollars are curiously like men. Put them to work, and they will earn an income to support you. Keep them idle, and they will earn nothing.

The amount of work they do and the amount of income they earn depend on you. If you let your dollars live lazy lives, they will earn you three or four per cent. But, if you choose, you can make them earn you a much better yield without overworking them—that is, without sacrificing safety in any degree.

And it surely is worth while to make your dollars work as hard for you as you worked for them, and earn

5½ to 6%

First Mortgage Serial Real Estate Bonds afford you a perfectly safe investment, that will keep your money at work earning the best rate consistent with safety. The soundness of these bonds is best indicated by the record of this House, 34 years without a dollar loss to any client.

The bonds are secured by the best class of newly improved, well located city properties, and are issued in convenient denominations—$1,000, $500 and $100.

If you are interested in safe investments, write today for the Straus Investors Magazine, and for

Booklet No. D-656

S. W. STRAUS & CO.
STRAUS BUILDING 150 BROADWAY
CHICAGO NEW YORK
DETROIT-MINNEAPOLIS

The Outward Sign of Inward Service

IN the new Firestone tire with trade-mark, Red Side Wall and Black Tread, the tire is given an appearance in keeping with the excellence of its inner building.

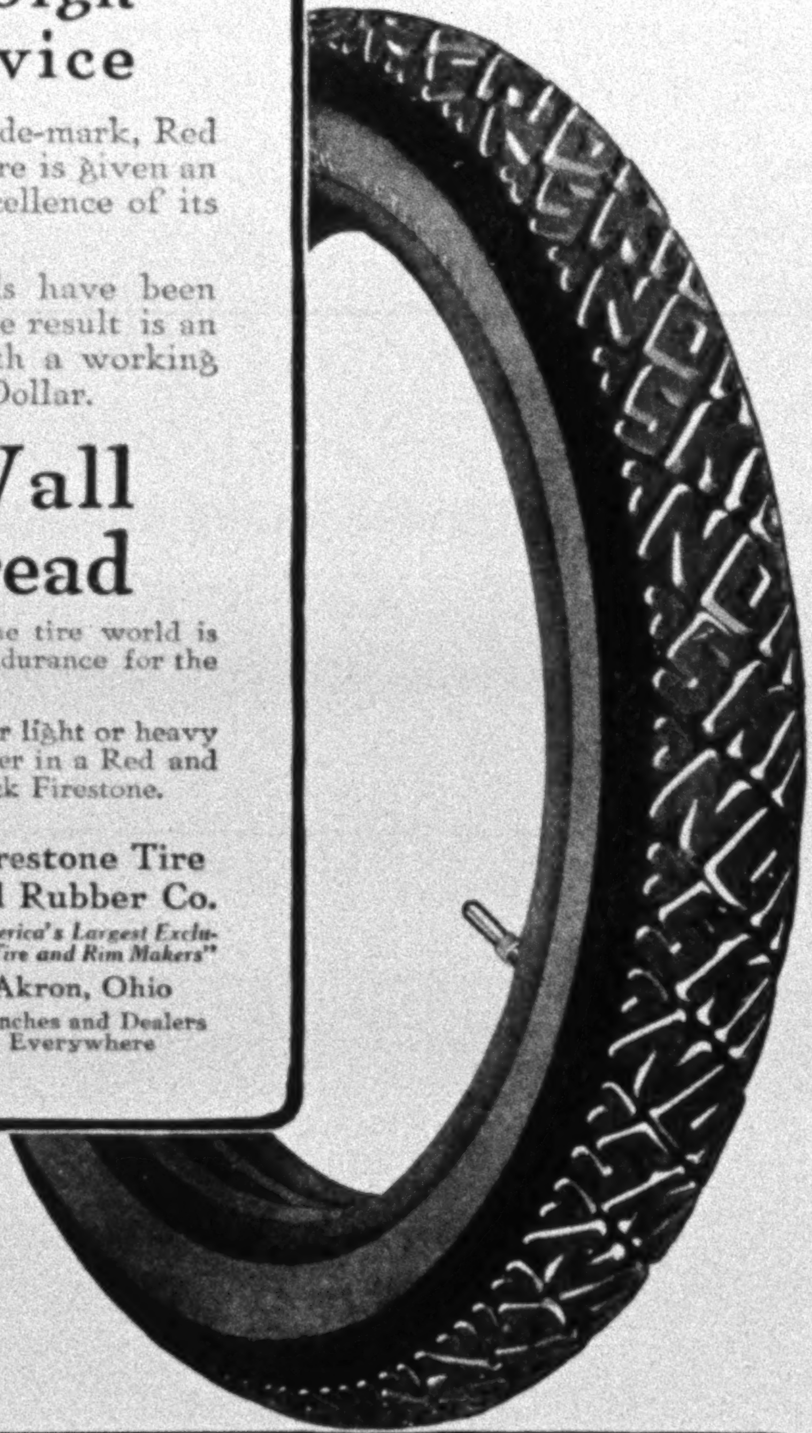
Perfection in all service—essentials have been matched with outward elegance: the result is an attractive combination of looks with a working record that insures Most Miles per Dollar.

Red Side Wall and Black Tread

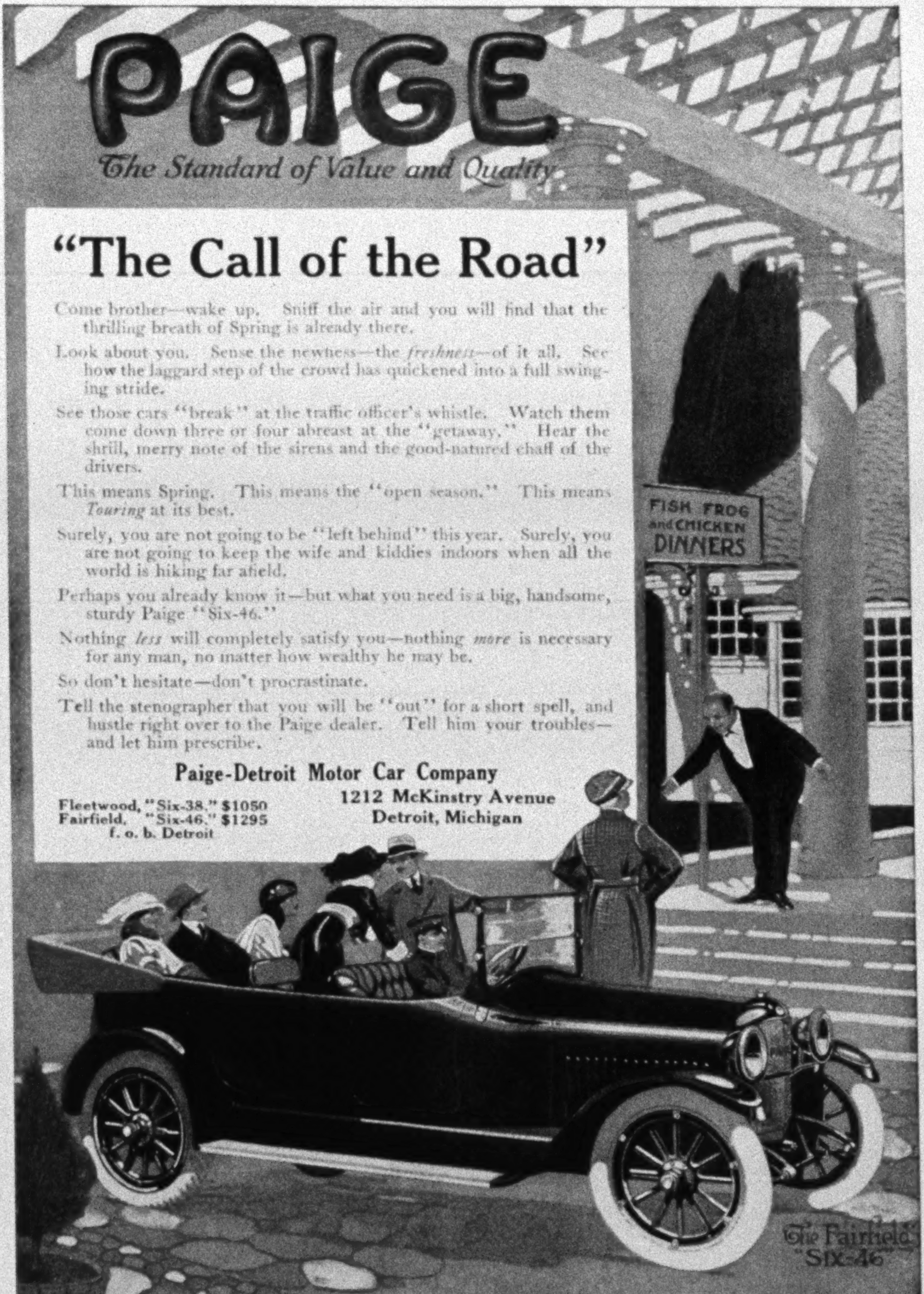
The Firestone reputation as Colossus of the tire world is associated in the public mind with giant endurance for the demands of heaviest service.

But whatever the size or type you need—for light or heavy car or motorcycle—there is the exact answer in a Red and Black Firestone.

Firestone Tire and Rubber Co.
"America's Largest Exclusive Tire and Rim Makers"
Akron, Ohio
Branches and Dealers Everywhere



Firestone
The Red Side Wall and Black Tread


PAIGE
The Standard of Value and Quality
FISH FROG and CHICKEN DINNERS
The Fairfield "SIX-46"

"The Call of the Road"

Come brother—wake up. Sniff the air and you will find that the thrilling breath of Spring is already there.

Look about you. Sense the newness—the *freshness*—of it all. See how the laggard step of the crowd has quickened into a full swinging stride.

See those cars "break" at the traffic officer's whistle. Watch them come down three or four abreast at the "getaway." Hear the shrill, merry note of the sirens and the good-natured chaff of the drivers.

This means Spring. This means the "open season." This means *Touring* at its best.

Surely, you are not going to be "left behind" this year. Surely, you are not going to keep the wife and kiddies indoors when all the world is hiking far afield.

Perhaps you already know it—but what you need is a big, handsome, sturdy Paige "Six-46."

Nothing *less* will completely satisfy you—nothing *more* is necessary for any man, no matter how wealthy he may be.

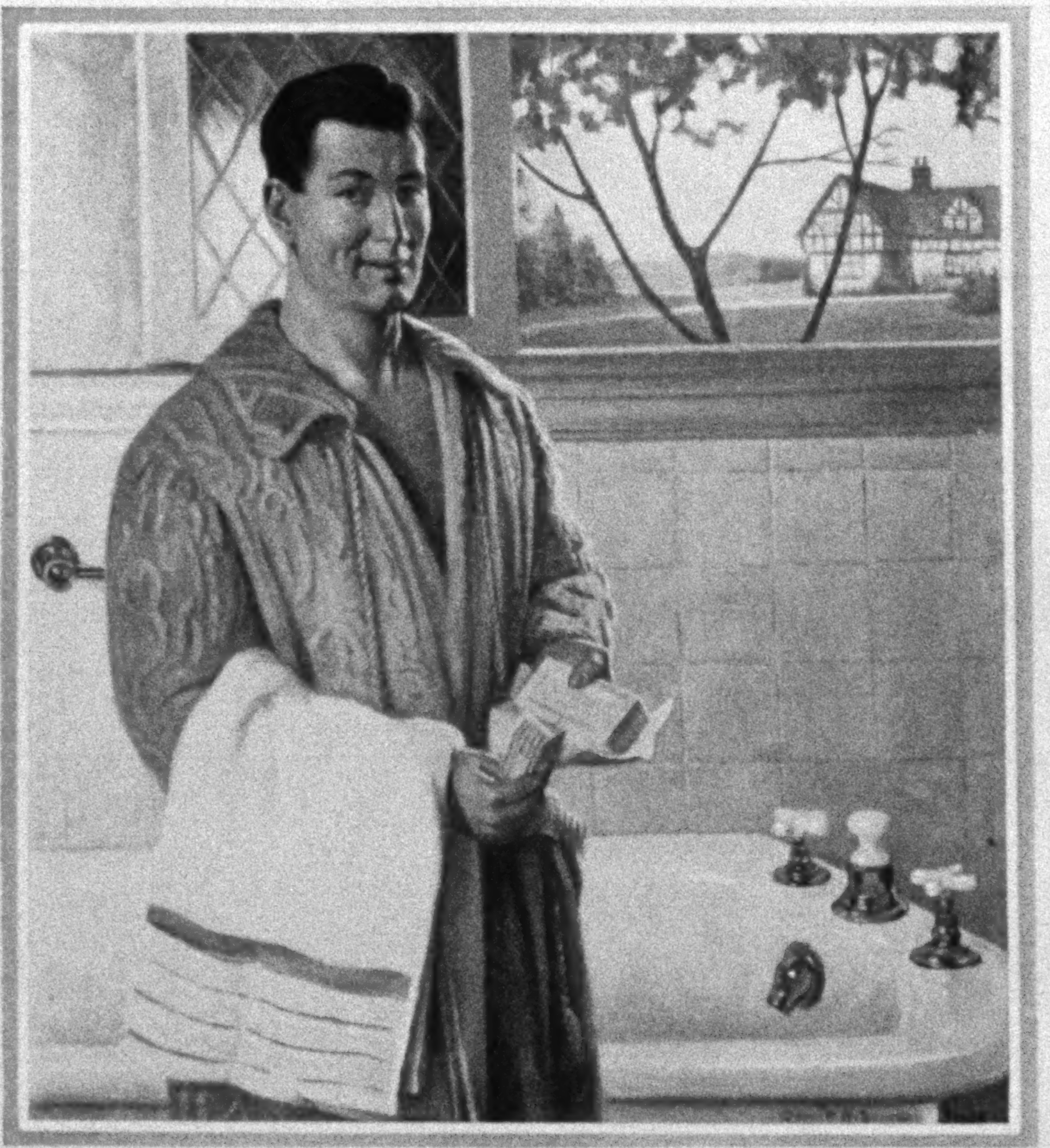
So don't hesitate—don't procrastinate.

Tell the stenographer that you will be "out" for a short spell, and hustle right over to the Paige dealer. Tell him your troubles—and let him prescribe.

Paige-Detroit Motor Car Company

1212 McKinstry Avenue
Detroit, Michigan

Fleetwood, "Six-38," $1050
Fairfield, "Six-46," $1295
f. o. b. Detroit



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THE great American eye-opener is an Ivory Soap bath. A quick massage from head to toe with the mild, bubbling, copious Ivory lather, a plunge into clear, cold water, a brisk rub-down and one enjoys that feeling of exhilarating cleanness which gives mind and body a running start in the day's work and play.

IVORY SOAP . . . . 99$\frac{44}{100}$% PURE

IT FLOATS

Factories at Ivorydale, Ohio; Port Ivory, New York; Kansas City, Kansas; Hamilton, Canada

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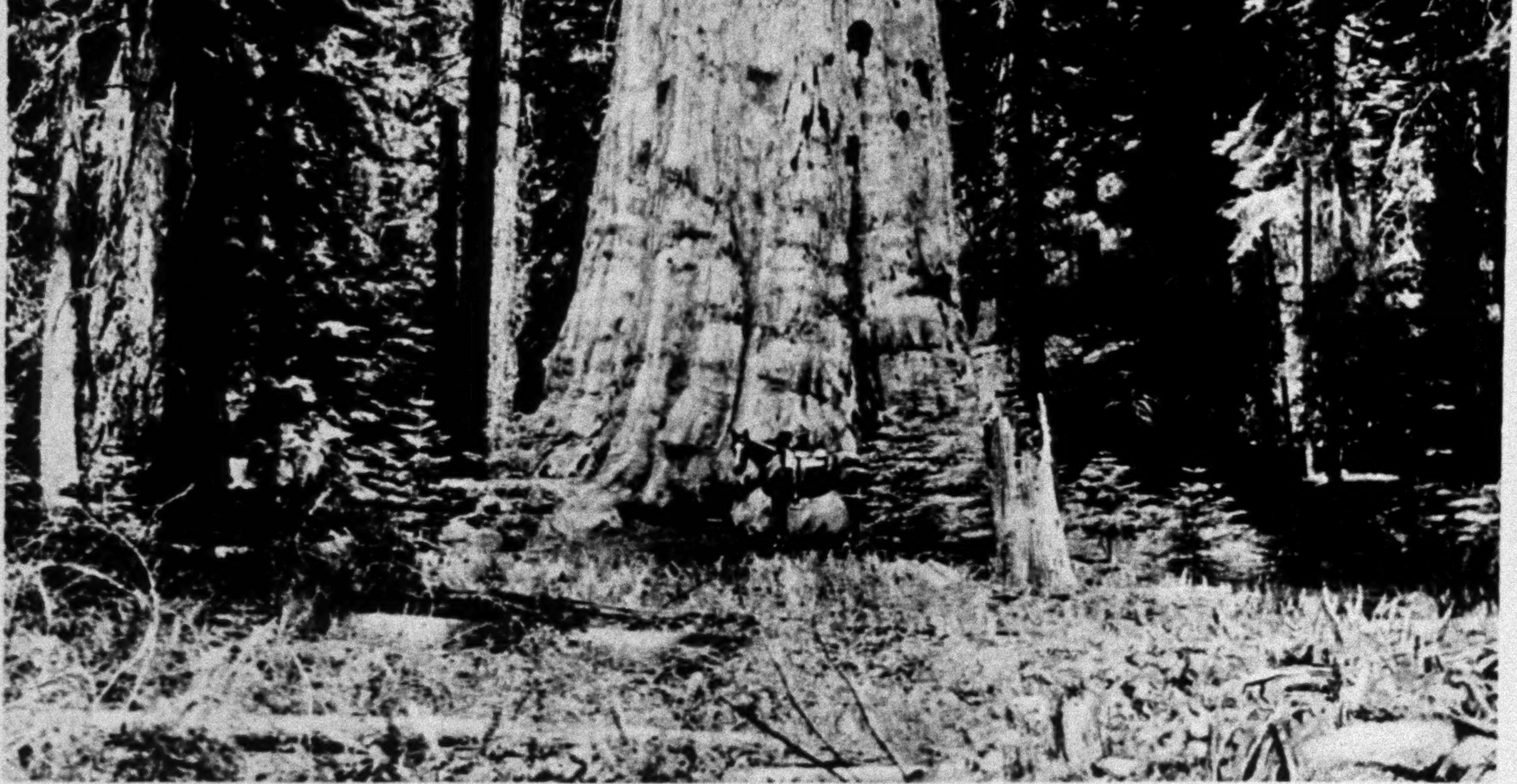

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GILBERT H. GROSVENOR, *Editor*

Photograph by Eddy

THE OLDEST LIVING THING

Towering a giant among giants, the oldest living thing that connects the present with the dim past, majestic in its mien, its dignity and its world-old experience, the "General Sherman Tree" is the patriarch of the Sequoia National Park of California. It was already 2,000 years old when Christ was born. In the age when the known world was rocking in the throes of the Trojan Wars and the time that history tells us marked the Exodus of the Hebrews from Egypt, this greatest of *sequoia gigantea* was a flourishing sapling of some twenty or thirty feet in height, and truly under the especial care of the Creator, Who held it safe from the lightnings of His wrath as He did from the attack of earthly enemies. The "General Sherman" was discovered in 1879 by James Wolverton, a hunter, and named by him in honor of General William T. Sherman. It towers 279.9 feet into the sky; its base circumference is 102.8; its greatest diameter 36.5, and it has developed a diameter of 17.7 feet at a point 100 feet above the ground.

VOL. XXIX, No. 4 WASHINGTON APRIL, 1916

THE NATIONAL GEOGRAPHIC MAGAZINE

THE LAND OF THE BEST

BY GILBERT H. GROSVENOR

AUTHOR OF "YOUNG RUSSIA, THE LAND OF UNLIMITED POSSIBILITIES"

RARELY has there been afforded a more impressive illustration of the statement that it pays to advertise than is to be found in the story of the endless stream of tourists hastening to Europe during the several decades before the great war.

The appeal of the art treasures and associations of the Old World, which is the original home of all Americans, is really not sufficient explanation of the fact that until last year 100 American tourists were crossing the Atlantic to one American tourist who crossed the United States. The delightful literature which the European travel bureaus and steamship companies placed at our disposal so whetted our appetite for a view of the lakes of Ireland and Scotland, of the castles on the Rhine and Danube, of the scenes made famous by Shakespeare, Dickens, Victor Hugo, and Goethe, that we turned our back upon scenery more beautiful, wild flower gardens and forests incomparably finer, mountains more superb, and lakes more radiant than any to be seen in the lands across the Atlantic.

It is true that one finds a more ancient culture in Europe. It is also true that he finds more splendid architecture. And likewise it is true that he finds there better art; for before America was born into the family of nations Europe had castles and cathedrals and masterpieces of art and sculpture.

But in that architecture which is voiced in the glorious temples of the sequoia grove and in the castles of the Grand Canyon, in that art which is mirrored in American lakes, which is painted in geyser basins and frescoed upon the side walls of the mightiest canyons, there is a majesty and an appeal that the mere handiwork of man, splendid though it may be, can never rival.

Nor is our country lacking in hallowed and historic spots. Is Waterloo, where Napoleon's star of empire set forever, any more sacred to the American heart than Appomattox, where a new nation was born out of the throes of internecine strife? Are Austerlitz and Wagram, with their high tides of the French Empire, of soil more sacred, of atmosphere more hallowed than Valley Forge and Gettysburg, Plymouth Rock, Independence Hall, and Mt. Vernon? Does London or Paris or Berlin contain more of inspiration to us as a people than Washington, the Nation's Capital?

We have wandered far to find the picturesque and the magnificent, and yet it is not entirely a provincial philosophy which says that New York is in many ways the most wonderful, the most striking, and the most interesting of all the cities of the earth; neither is it only the voice of the man who has never seen other shores that pronounces Yellowstone Park the most marvelous picture-book

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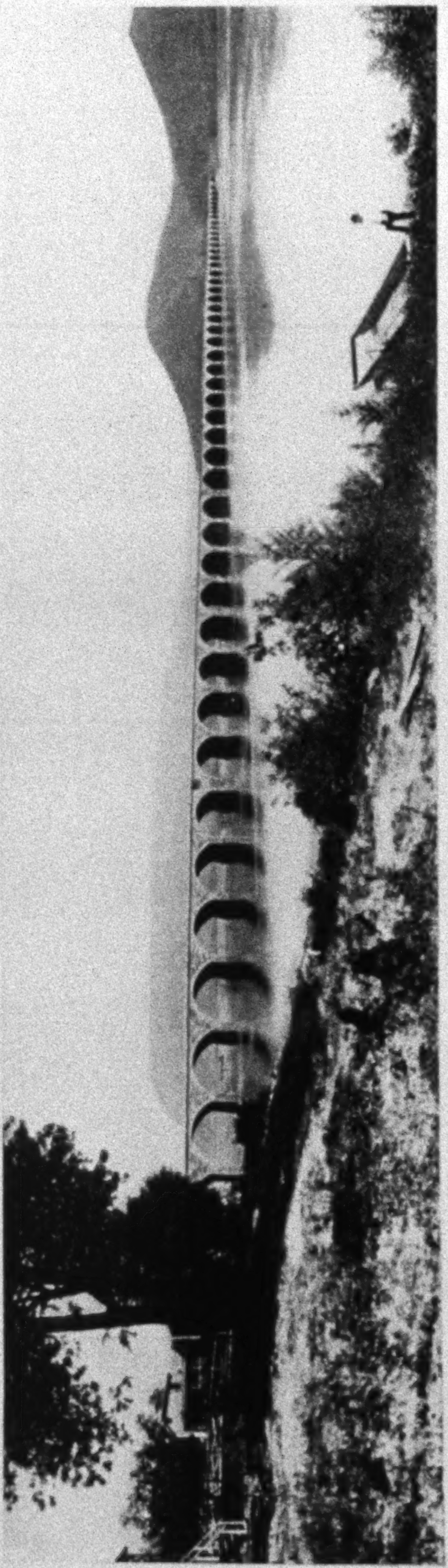


STONE BRIDGE OVER THE SUSQUEHANNA RIVER AT ROCKVILLE, PENNSYLVANIA

One might travel all over Europe without seeing a more picturesque landscape than this, or a more successful combination of art and nature in a single scene

of Nature's library; nor yet is it the narrow pride of the spread-eagle orator alone that awards to the Grand Canyon and the Yosemite and the Big Trees first place among the wonder scenes of the earth.

Luray Cave, in Virginia, and the Mammoth Cave, in Kentucky, surpass in originality and grandeur any caves in Europe, while Niagara Falls has no rival in Europe or in Asia, and our American forests are the glory of the world.

Man goes to Asia and to Africa to study forgotten civilizations, when the Redskins upon our own Western plains and in our own cliff dwellings reveal stories of the past as strange as any we know, and constitute a race more magnificent in physique than any that can be found in other parts of the world.

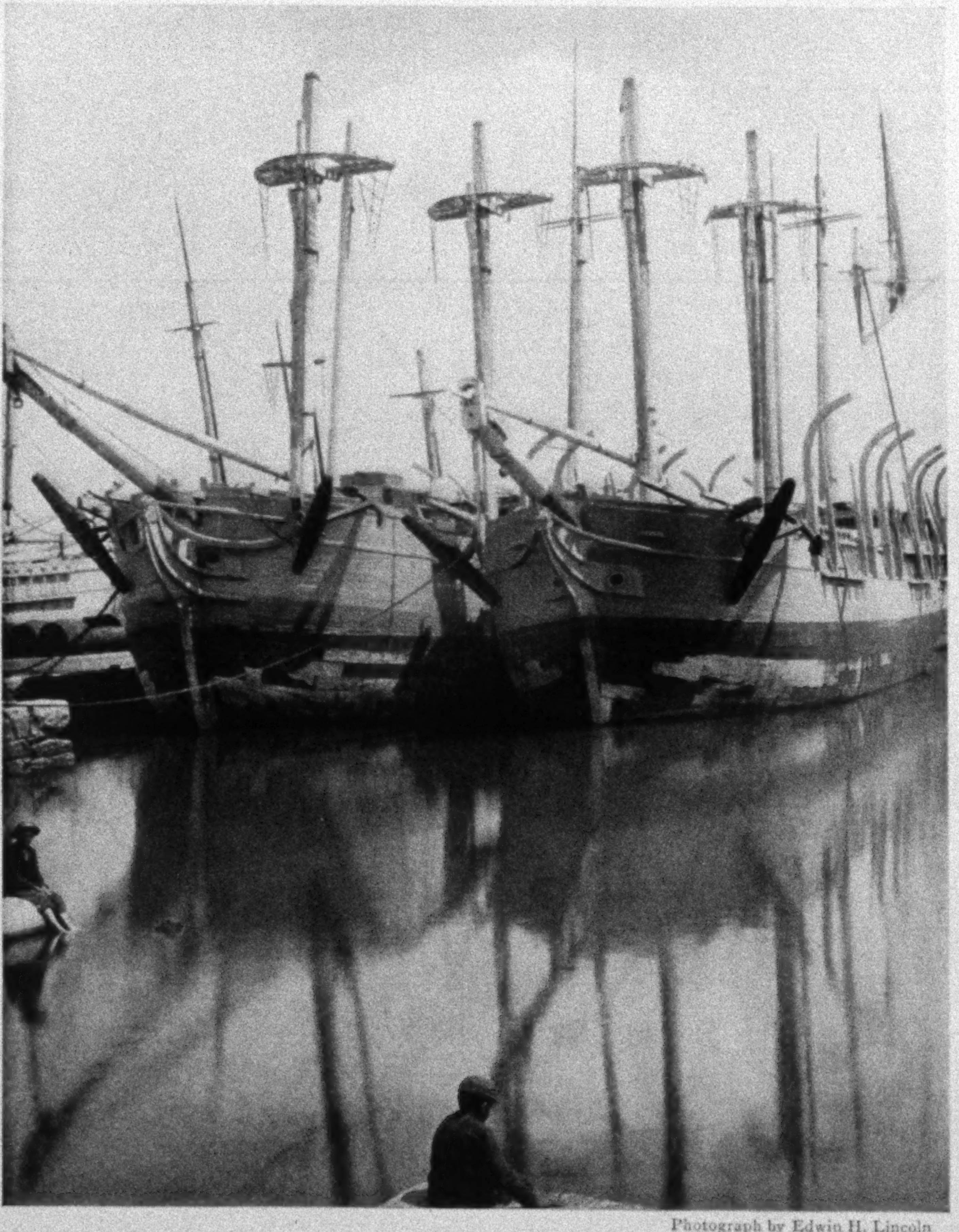
When one comes to examine the literature of America for the tourist, one is amazed at the contrast between that literature and what he finds from other countries. Baedeker publishes a guide-book in three volumes to tell about Italy, and one volume to tell about the United States and Mexico. One can find more literature about the geysers of New Zealand than about those of the Yellowstone (though the Yellowstone contains more geysers than all the rest of the world); more about the troglodytes of northern Africa and Asia Minor than about the cliff-dwellers of Arizona and New Mexico, though the latter were much more ingenious and more amazing in their achievements.

As it would require more space than there is between the covers of this Magazine merely to index all the places of scenic and historic interest in our country, in this article we must content ourselves with mentioning in text and picture only a comparatively few. Remember, that the United States, excluding Alaska, is as big as England, Scotland, Ireland, France, Germany, Spain, Portugal, Italy, Austria-Hungary, the Balkan States, Switzerland, Holland and Belgium,

Photograph by Edwin H. Lincoln

"THE BAREFOOT BOY WITH CHEEKS OF TAN"

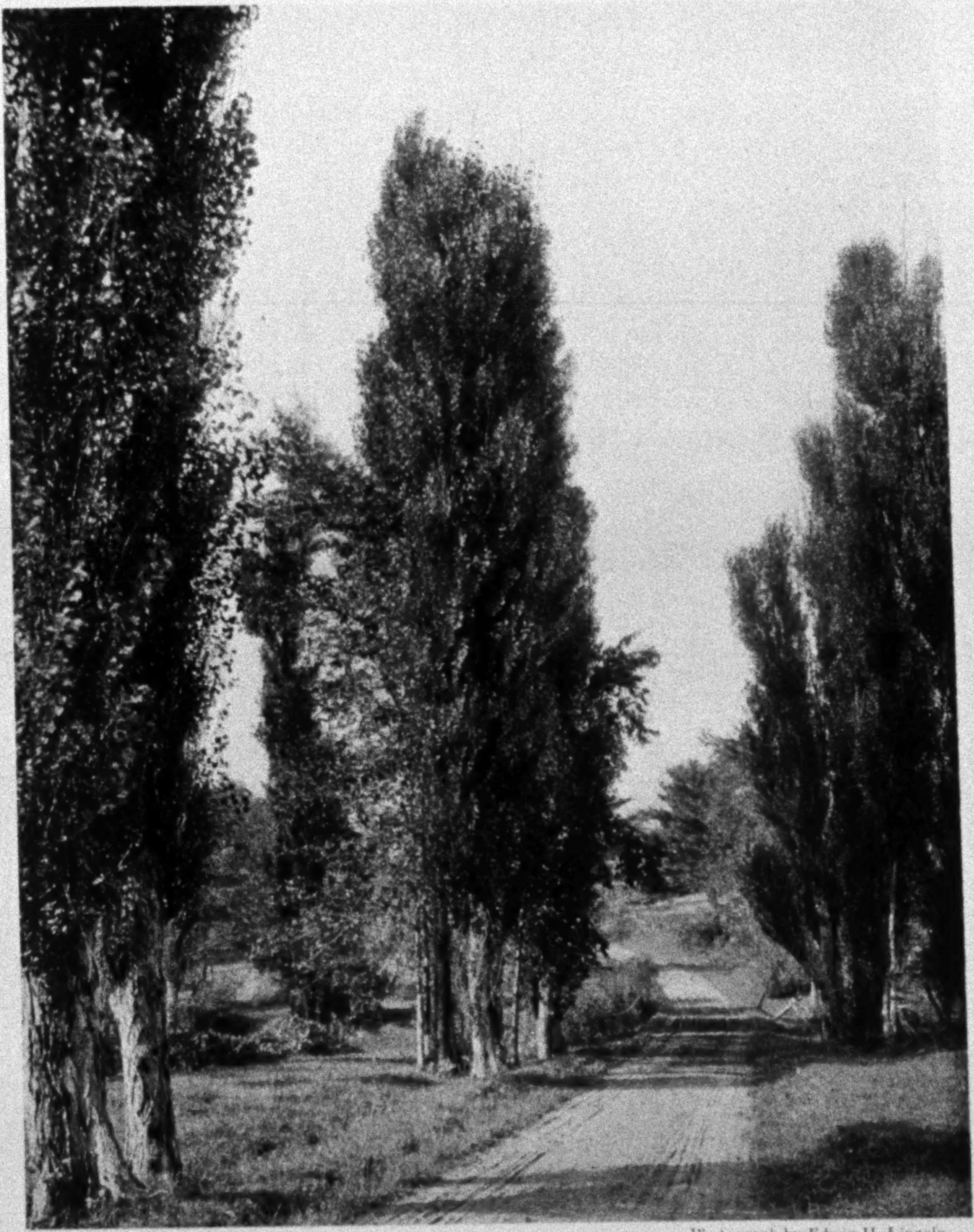
This young man cut his "fishin' pole," dug a can of worms, gathered up his basket, and then said: "Mother, how many do you want?"



Photograph by Edwin H. Lincoln

THEIR LAST PORT: NEW BEDFORD, MASSACHUSETTS

Whalers *Rousseau* and *Desdemona Rousseau*, built in 1802 by Stephen Girard, of Philadelphia, and used at one time as packets between Liverpool and Philadelphia. The fortunes of most of New Bedford's leading families were founded on whale oil and "bone," and every tradition of the town has a whaling background.



Photograph by Edwin H. Lincoln

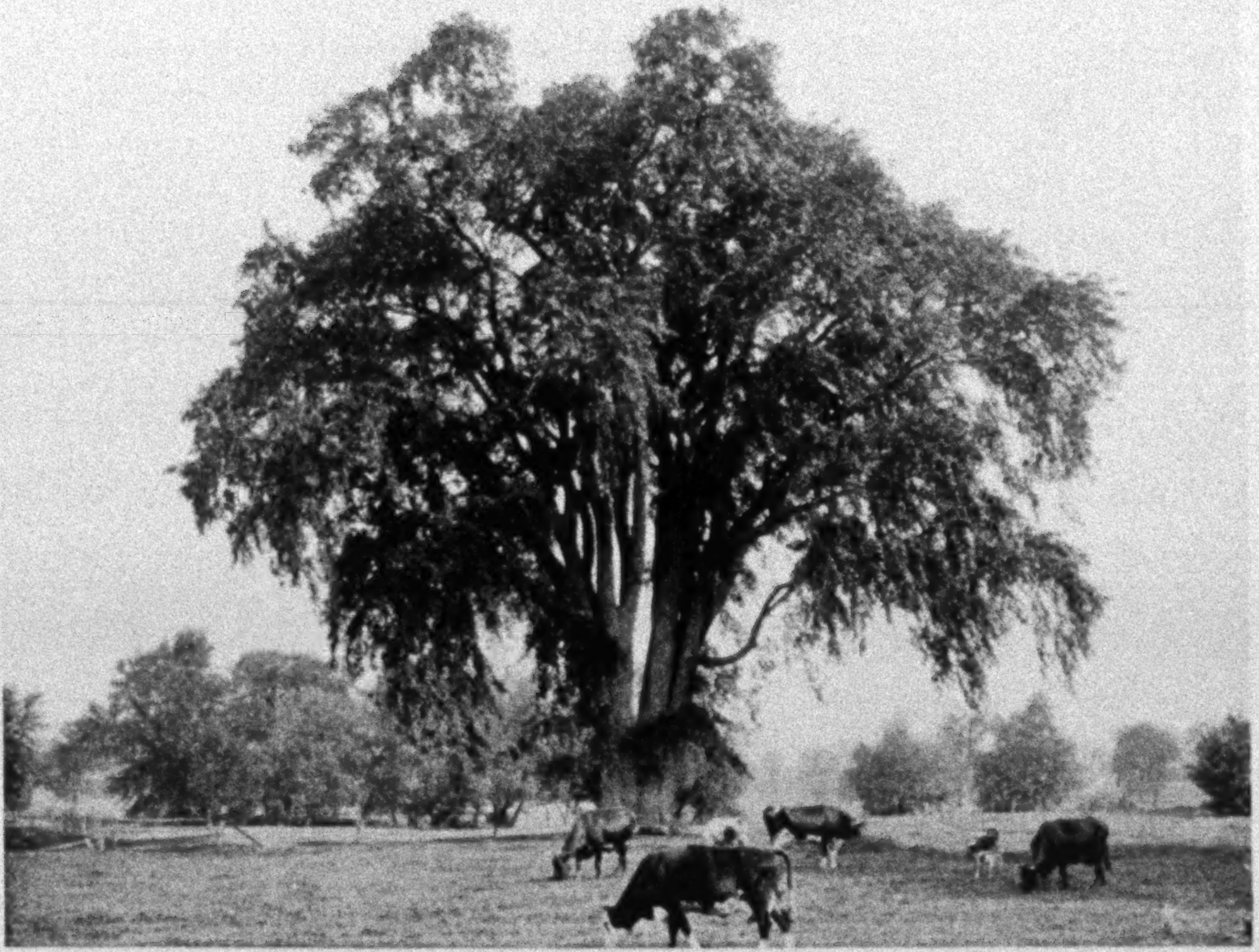
LOMBARDY POPLARS ON ROAD BETWEEN LENOX AND PITTSFIELD, MASSACHUSETTS

Pittsfield's Public Green has been called "the heart of the Berkshires," and Lenox has been christened "the gem of the mountains." Between them stretches miles of scenery, with old Greylock in the distance, as pastoral in its charm, as soft in its beauty, as inviting in its appeal as anything that Europe can offer.

Photograph by Edwin H. Lincoln

A NEW ENGLAND VILLAGE

Do the rural communities of England or France contain anything more graceful or picturesque than our American elms?



THE LANCASTER ELM, THE LARGEST IN MASSACHUSETTS

Several of our States already are pointing the way that all of them are certain to travel in the future. Mountain tops, historic sites, battlefields, and other places of scenic and historic interest are being acquired by the State and reserved for the public.

Norway and Sweden, and European Russia, excepting the provinces of Archangel and Perm.

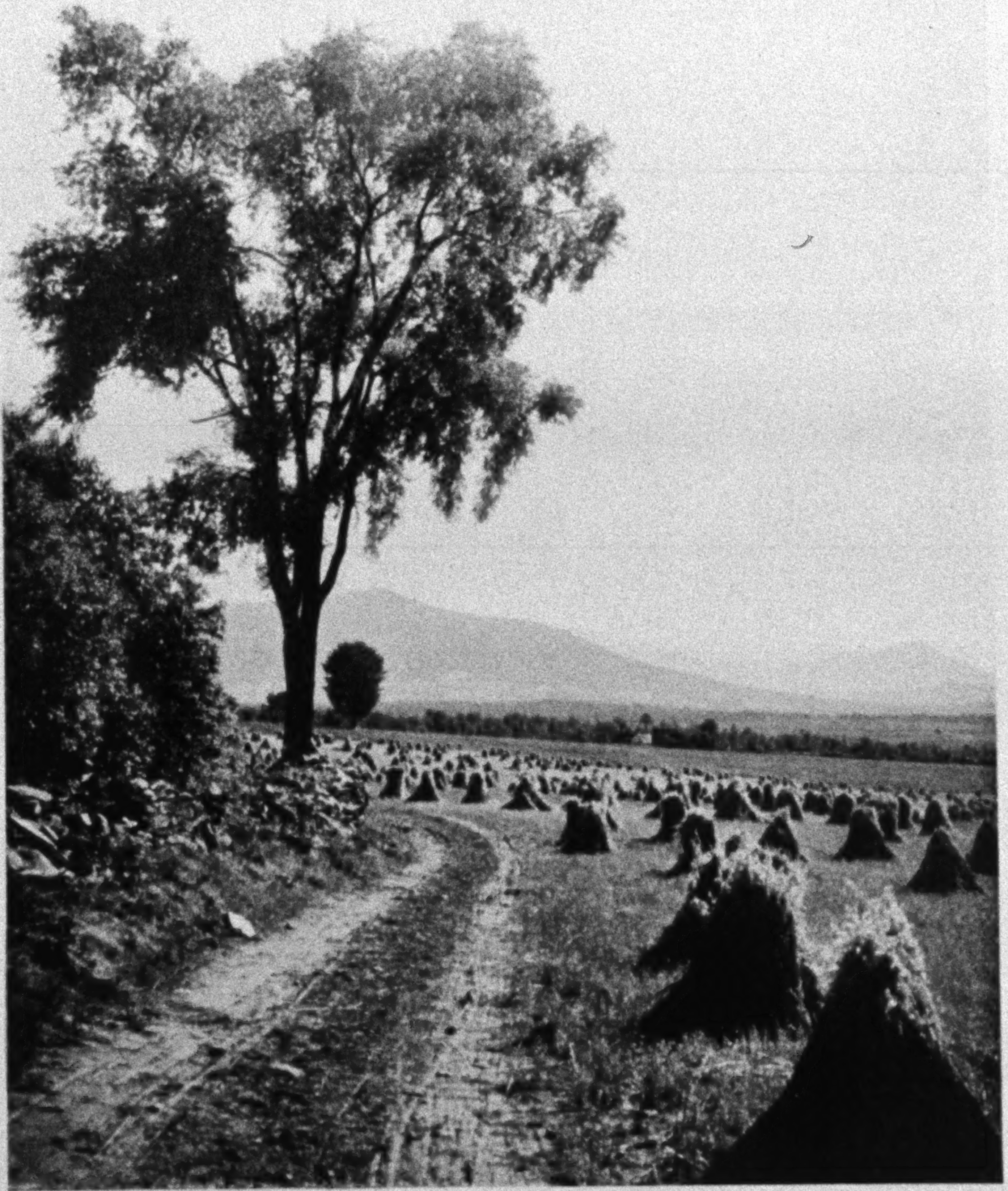
PICTURESQUE AND HISTORIC NEW ENGLAND

Boston—with its rich history of Colonial days, its brave leadership of Revolutionary times, its appreciation of culture in the years when our people were so deeply absorbed in the problem of conquering the wilderness and building a nation—takes on a new meaning when one has visited its Commons, passed in and out of the portals of Faneuil Hall, made a pilgrimage to its old churches and the burying ground where lie the ashes of Hancock, Adams, and Paul Revere.

Already more than 50,000 people annually journey to the town of Plymouth to pay reverent homage to the memory of the *Mayflower*. Plymouth Rock is now appropriately cared for. On the hill near by rises a beautiful monument, which the nation has erected to the memory of those who risked their all to come to America in that pilgrim craft. It is said that the splendid statue of Faith which crowns this monument, and which is 40 feet high, is the largest stone figure in the world.

Plymouth Rock can never mean as much to the American who has not seen it as it does to him who has stood on Plymouth's sacred soil and felt the thrill of the spirit of those who fashioned here a cradle of modern liberty.

A hundred and one delightful and rest-



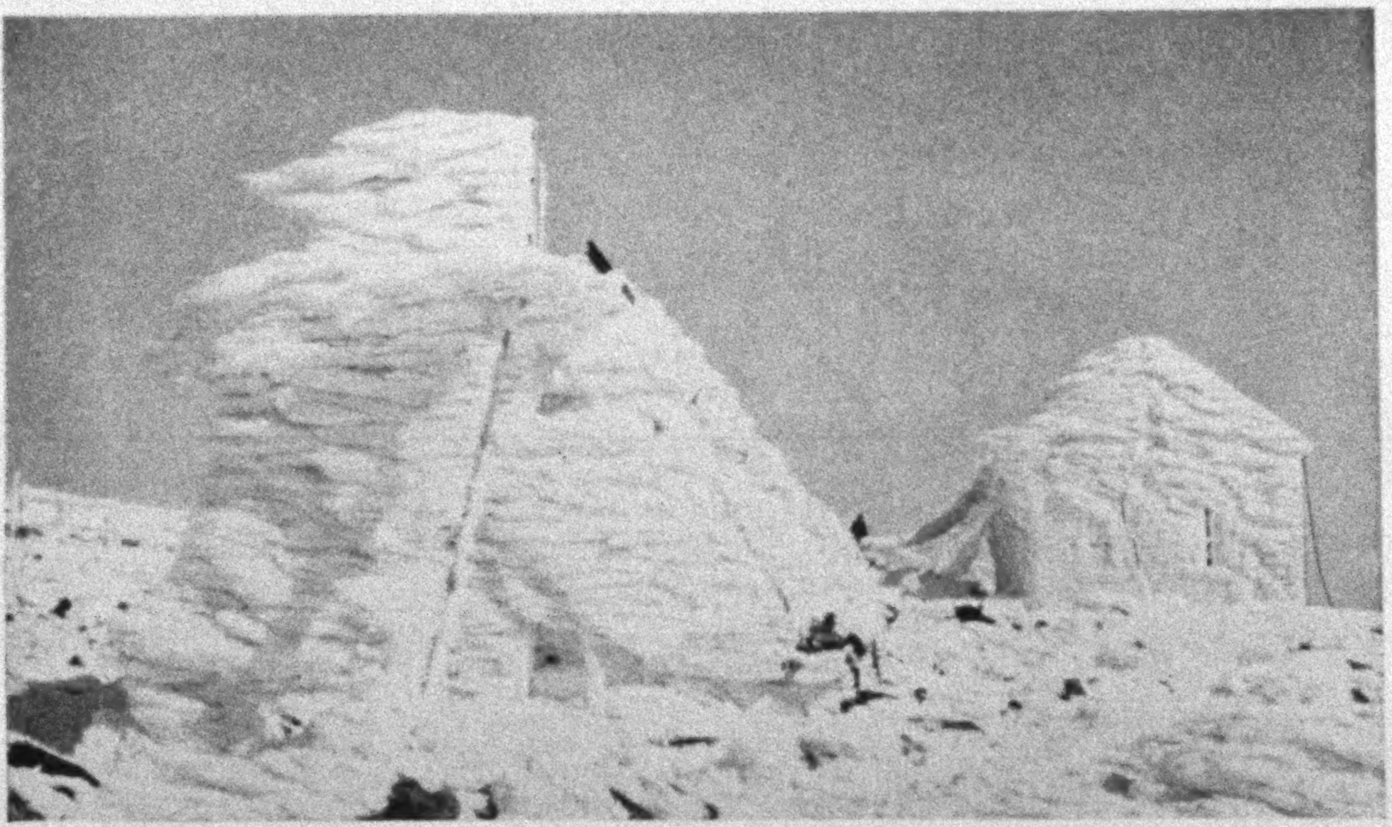
A NEW HAMPSHIRE HARVEST SCENE, WITH CHERRY MOUNTAIN IN THE DISTANCE

When the broad elm, sole empress of the plain, whose circling shadow speaks a century's reign,
Wreathes in the clouds her regal diadem— a forest waving on a single stem.
—Oliver Wendell Holmes.

The trees of America are the best God ever planted. Vast stretches of them have been cleared, but our forests still contain the largest, most varied, most fruitful, and most beautiful trees in the world. Wide-branched oaks and elms in endless variety, walnut and maple, chestnut and beech, sycamore and locust, along the coast of the Atlantic; to the southward, dark, level-topped cypresses, sparkling spice trees, magnolias and palms, glossy-leaved, blooming, and shining continually; to the northward, white pine and spruce, hemlock and cedar; westward, oak and elm, hickory and gum, ash, linden, laurel and pine, juniper, cactus and yucca; westward still further, new species of pine, giant cedars and spruces, silver firs and sequoias, "kings of their race."—John Muir.

ful places in Maine beckon the tourist, from the rock-bound island of Mt. Desert, on its southern shore, to the primeval forests of its northern woods.

One who visits New England without going to the top of Mt. Washington, the culminating peak of the White Mountains, misses one of the charming experiences which that part of our country, famous alike for its history and its scenery, has to offer. He who reaches the summit of that lofty peak journeys as far north in temperature and in flora as Greenland. From the Observatory one may look north, south, east, and west, the only limit to the view in any directio



JUST FROST! MOUNT WASHINGTON, NEW HAMPSHIRE, SEPTEMBER 30, 1915

A combination of an exceptionally heavy frost and a strong wind one morning last September transformed the end of the railroad trestle and the little stage office on the top of the mountain into fairy structures of glistening white.

Photographs by Guy L. Shorey

MOUNTS ADAMS AND MADISON FROM CORTES NOTCH TRAIL: NEW ENGLAND

One does not have to travel across the continent to find mountain-climbing steep and rugged enough to gratify all but the confirmed Alpinist

Photograph by Edwin H. Lincoln

THE VALLEY OF THE HOUSATONIC, WITH GREYLOCK IN THE DISTANCE: PITTSFIELD, MASSACHUSETTS

This valley has contributed the marbles out of which some of America's most noted structures have been built. The Nation's Capitol, at Washington, and the City Hall, at Philadelphia, share with St. Patrick's Cathedral, at New York, the common origin of their marbles. Old Greylock, "cloud girdled on his golden throne," is the highest mountain in Massachusetts.

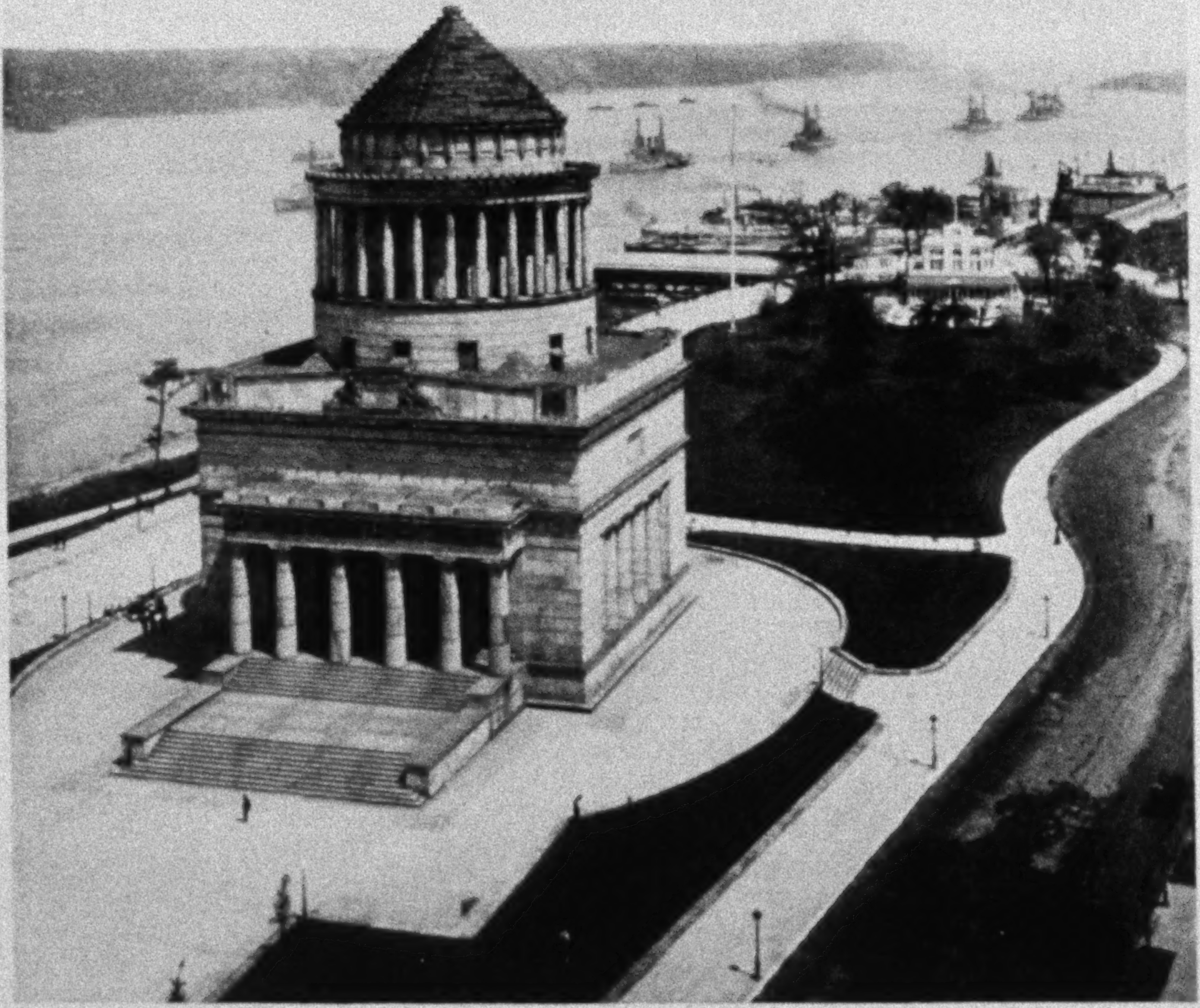
being the power of the eye to penetrate the distance. Northward, one looks into Canada; eastward, into Maine; southward, across New England; westward, into New York.

It was Henry Ward Beecher who said of the autumnal foliage of the Berkshire Hills: "Have the evening clouds, suffused with sunset, dropped down to become fixed into solid forms? Have the rainbows that followed autumn storms faded into the mountains, and left their mantles there? What a mighty chorus of colors do the trees roll down the valleys, up the hillsides, and over the mountains!"

These hills constitute one of the foremost playgrounds of the eastern United States. Their roads are as good as the Appian Way ever was in the palmiest days of the Roman Empire.

And he who journeys southward from them comes down the verdant valley of the Connecticut, the central portion of that charming little State of which De Tocqueville on his visit proposed his remarkable toast: "And now for my grand sentiment: Connect-de-coot, ze leetle yellow spot zat make ze clock-peddler, ze school-master and ze Senator; ze first give you time, ze second tell you what to do wiz him, and ze third make your laws and civilization."

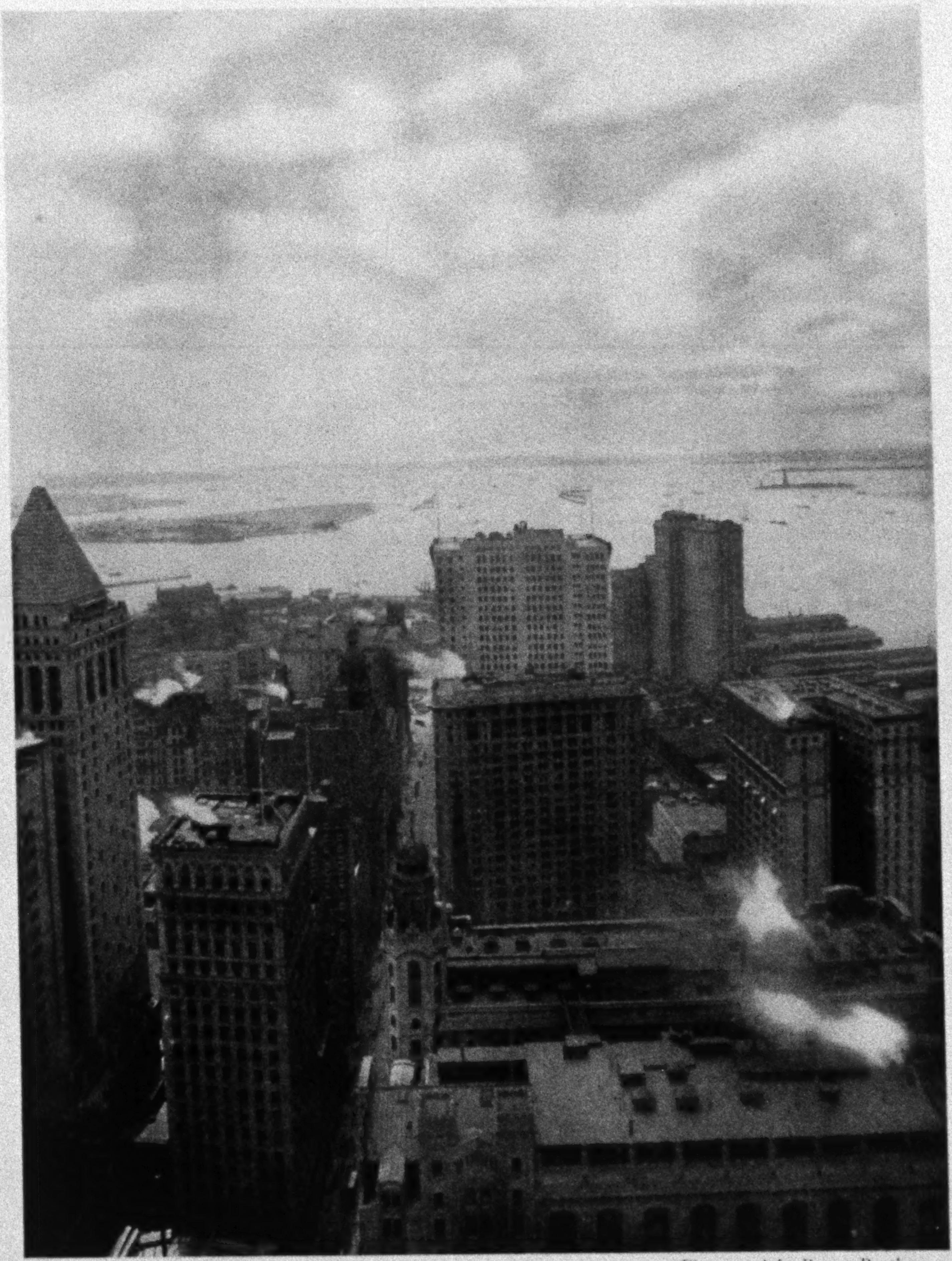
New Haven and Cambridge are two spots that must ever be hallowed in American history, for who can estimate the nation's debt to the two old uni-



Photograph by Edwin Levick

GRANT'S TOMB, NEW YORK CITY, SHOWING THE HUDSON WITH THE ATLANTIC FLEET RIDING AT ANCHOR

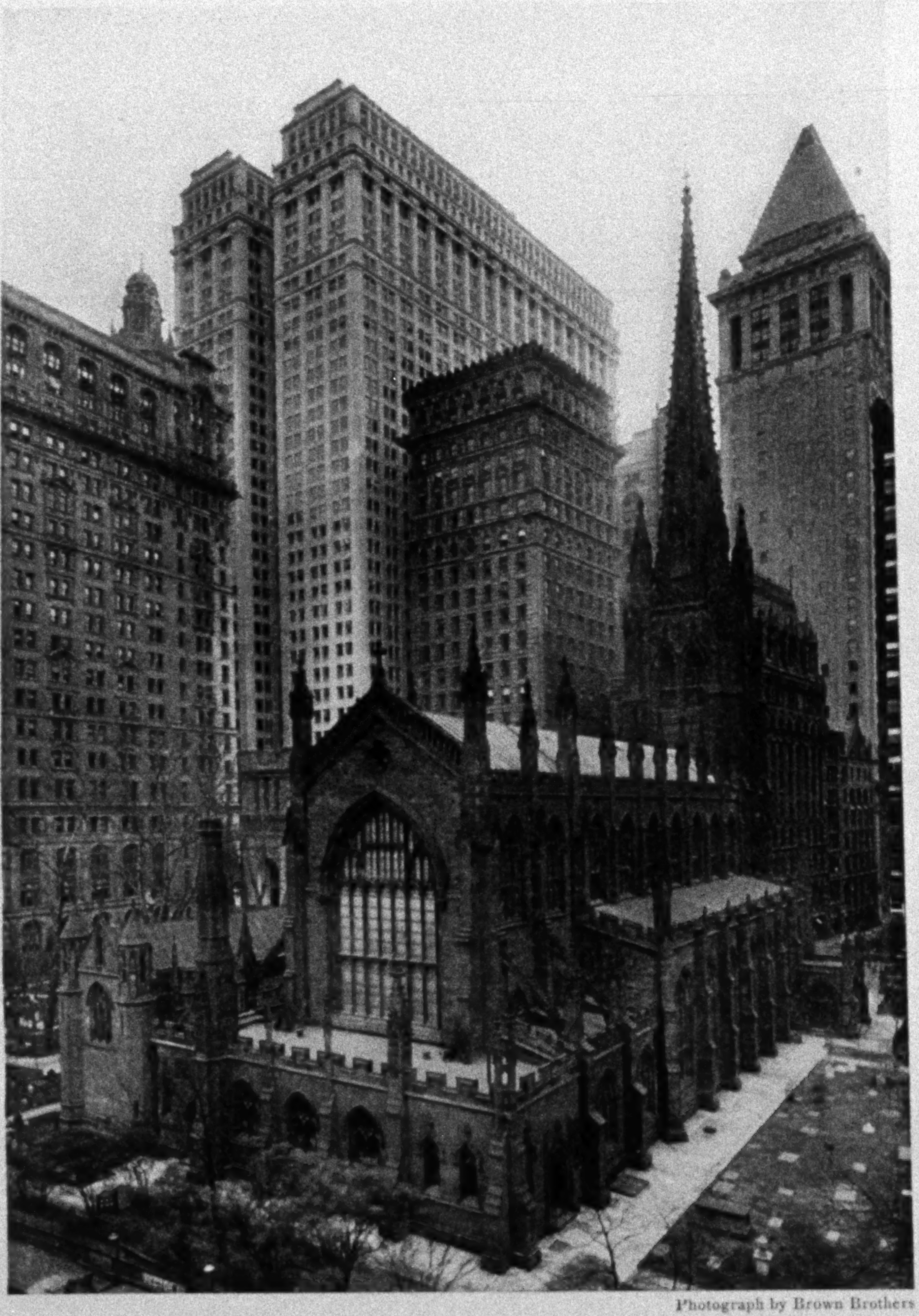
Next to Central Park, where broad acres of the most expensive land on earth present a velvety expanse of green, and great rocks, surrounded by carefully tended shrubbery and graceful trees, retain their rough natural beauty, the most inspiring "breathing space" is perhaps Riverside, which occupies a considerable proportion of the shore of the Hudson north of Seventy-second street. From this park a fine view of the Hudson River may be had, and within its confines is located the stately tomb of General U. S. Grant, which is to New York what the tomb of Napoleon is to Paris.



Photograph by Brown Brothers

THE TOP OF THE BUSINESS WORLD: LOOKING FROM THE WOOLWORTH BUILDING PAST THE BATTERY TOWARD THE SEA

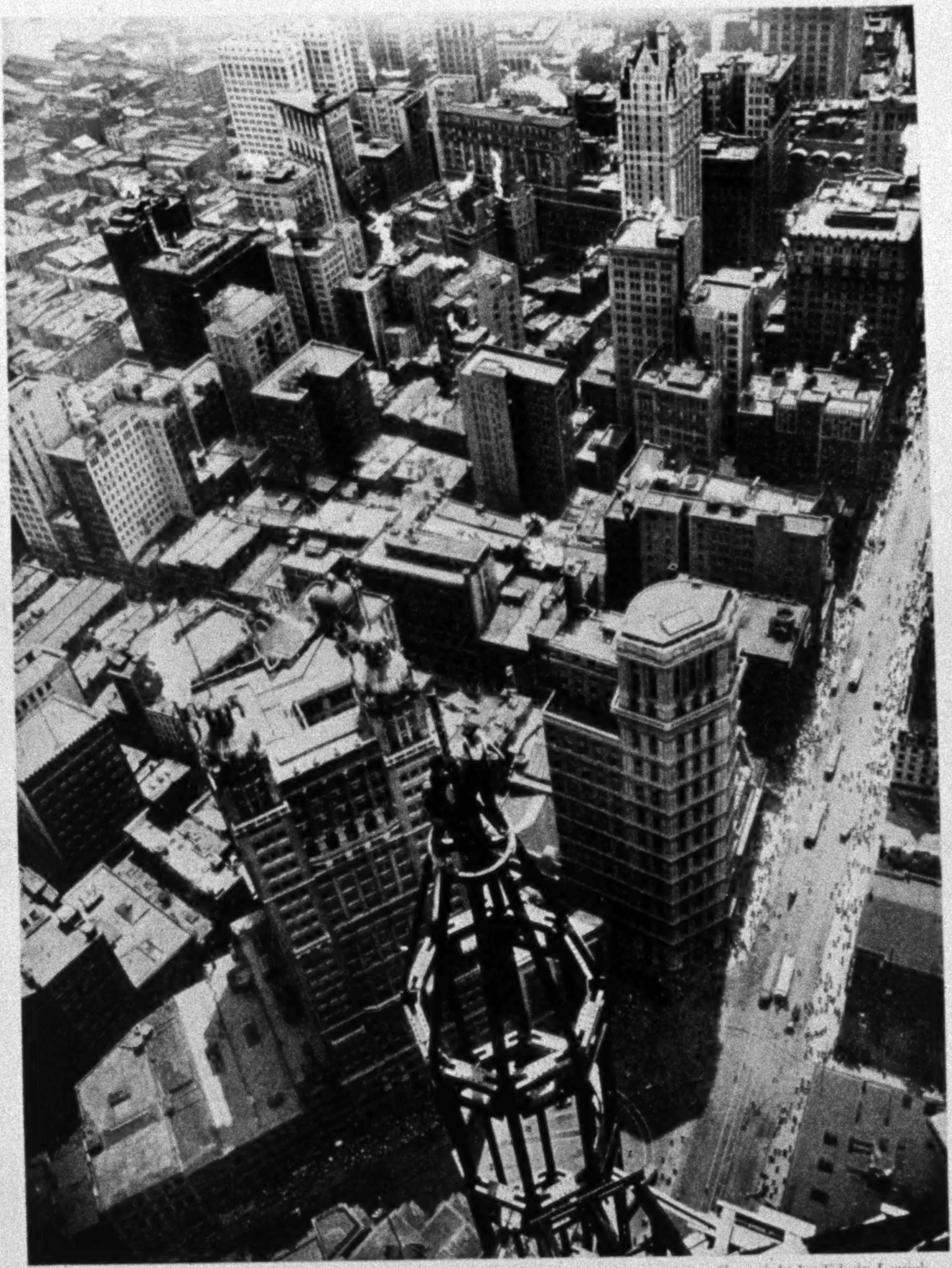
It takes no undue amount of national pride to accept New York as the world's foremost metropolis. London may be hundreds of years older and bigger; Paris may surpass it in art and architecture; Berlin may hold the better of the argument in "newness," but nowhere else on the face of the earth is there a city of such many-sided greatness as New York. Its port does more business, its banks have heavier clearings, its immigrant station has more incomers, its streets are trod by a more polyglot population, its urban railroads handle more traffic, its bridges carry more people, than any other city of Christendom.



Photograph by Brown Brothers

AN OASIS OF RELIGION AMID A DESERT OF BUSINESS

Trinity Church, New York, standing at the head of Wall street, its tower, looking down on America's financial center, seems a hand raised to heaven in an appeal that men may not, while absorbed in the struggle of the "Street," forget their God.



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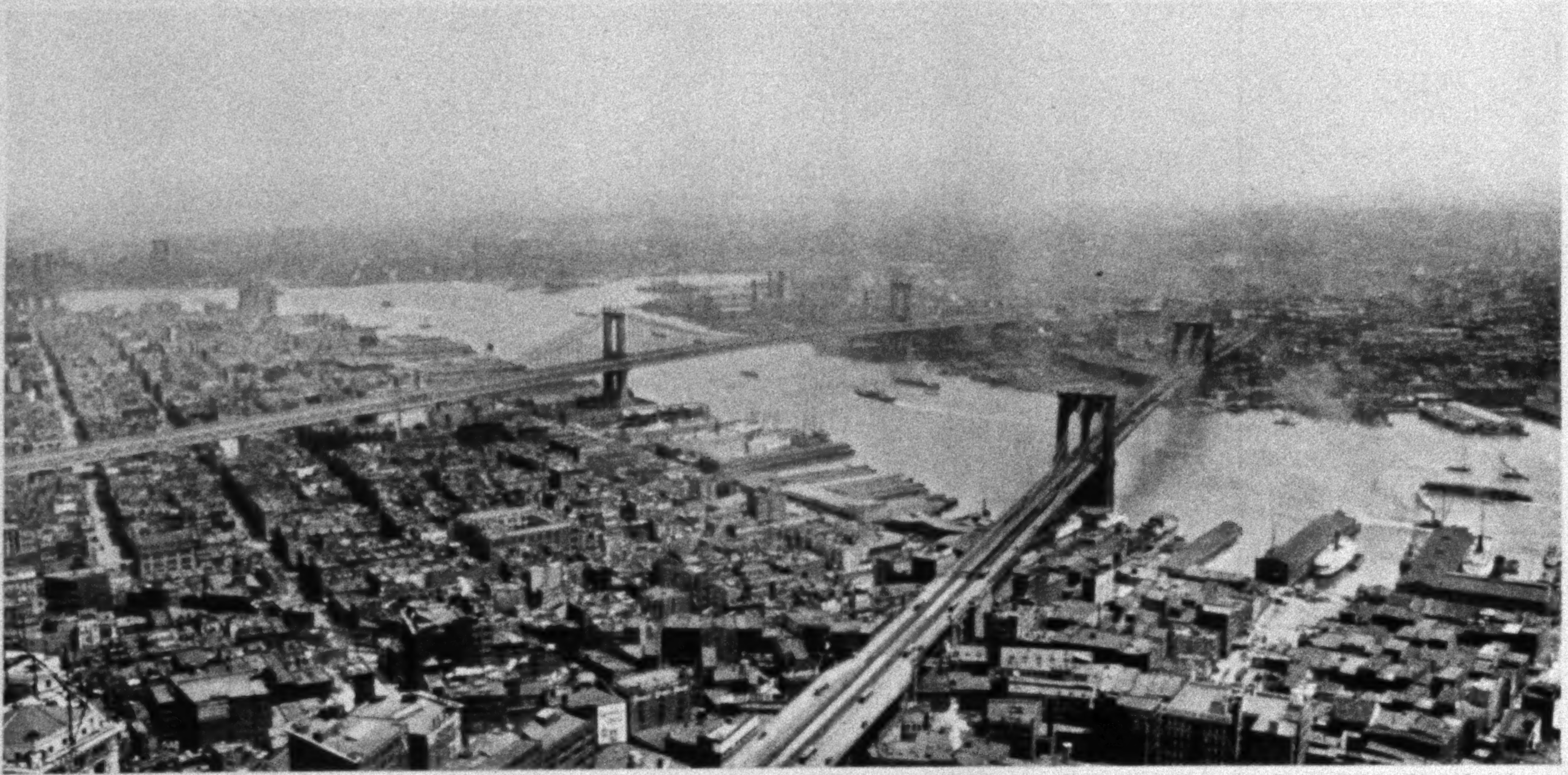
LOOKING DOWN UPON A FOREST OF SKYSCRAPERS: NEW YORK CITY

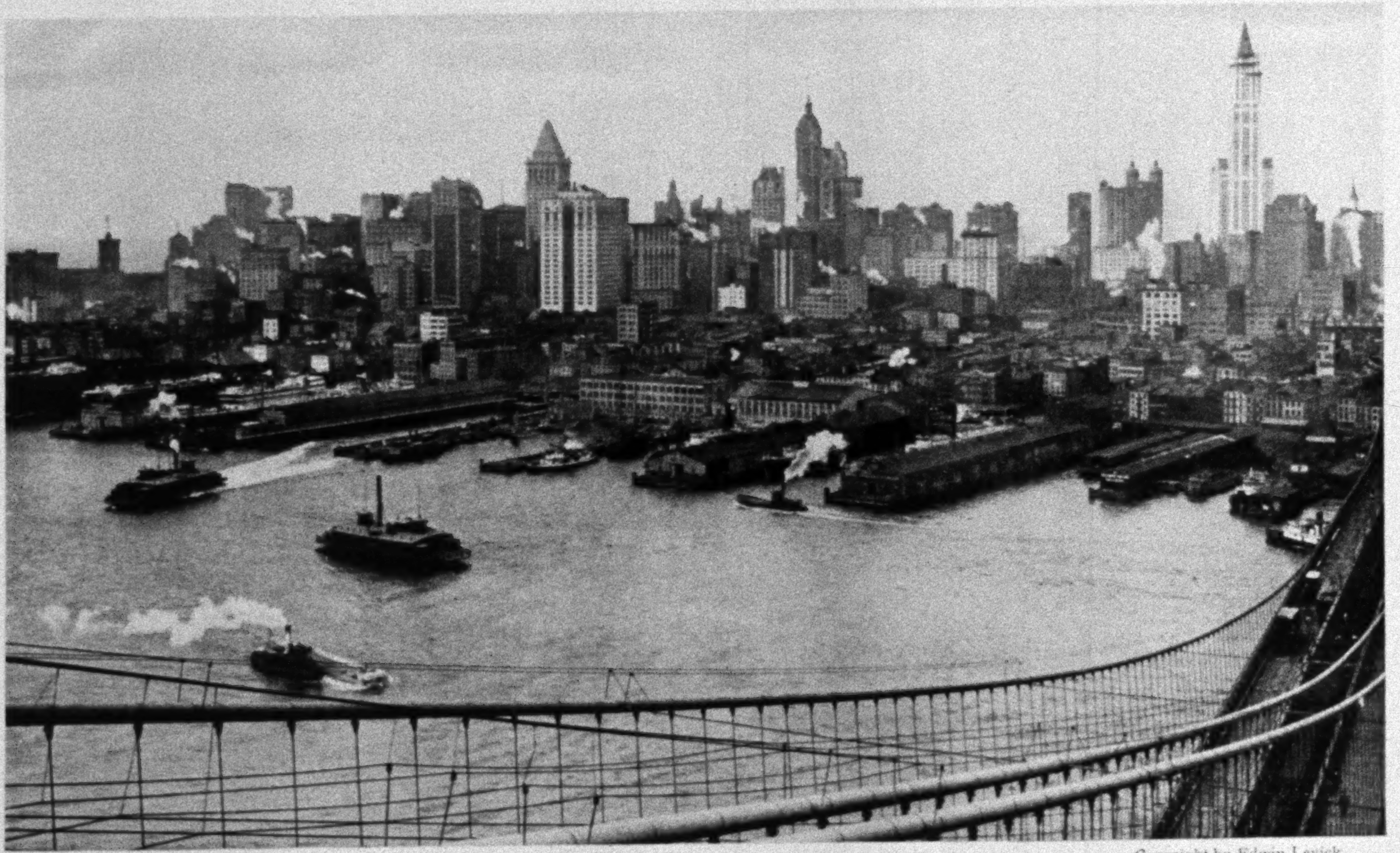
Upon the top of one of these man-made mountains there is the same peaceful quiet as on any mountain top. No sound from the streets below comes up this distance. Men on the sidewalks are infinitesimal dots, darting hither and yon. Looking down upon them, one is inclined to reflect what puny beings humans are, and from this lofty point of view almost forgets his sympathy for their personal interests. Then comes the realization that this mountain was built by these puny beings from materials dug out of the earth in a crude state, purified, shaped, and fastened together in a manner that will make it stand practically for all time, and then a feeling of reverence for the human brain—that God-given boon which has made these things possible. Note the men on the tower in the foreground.



Photograph by Edwin Levick

WHERE ELSE IN THE WORLD DO CITY BLOCKS APPEAR SO SHORT AND BRIDGES SO LONG?

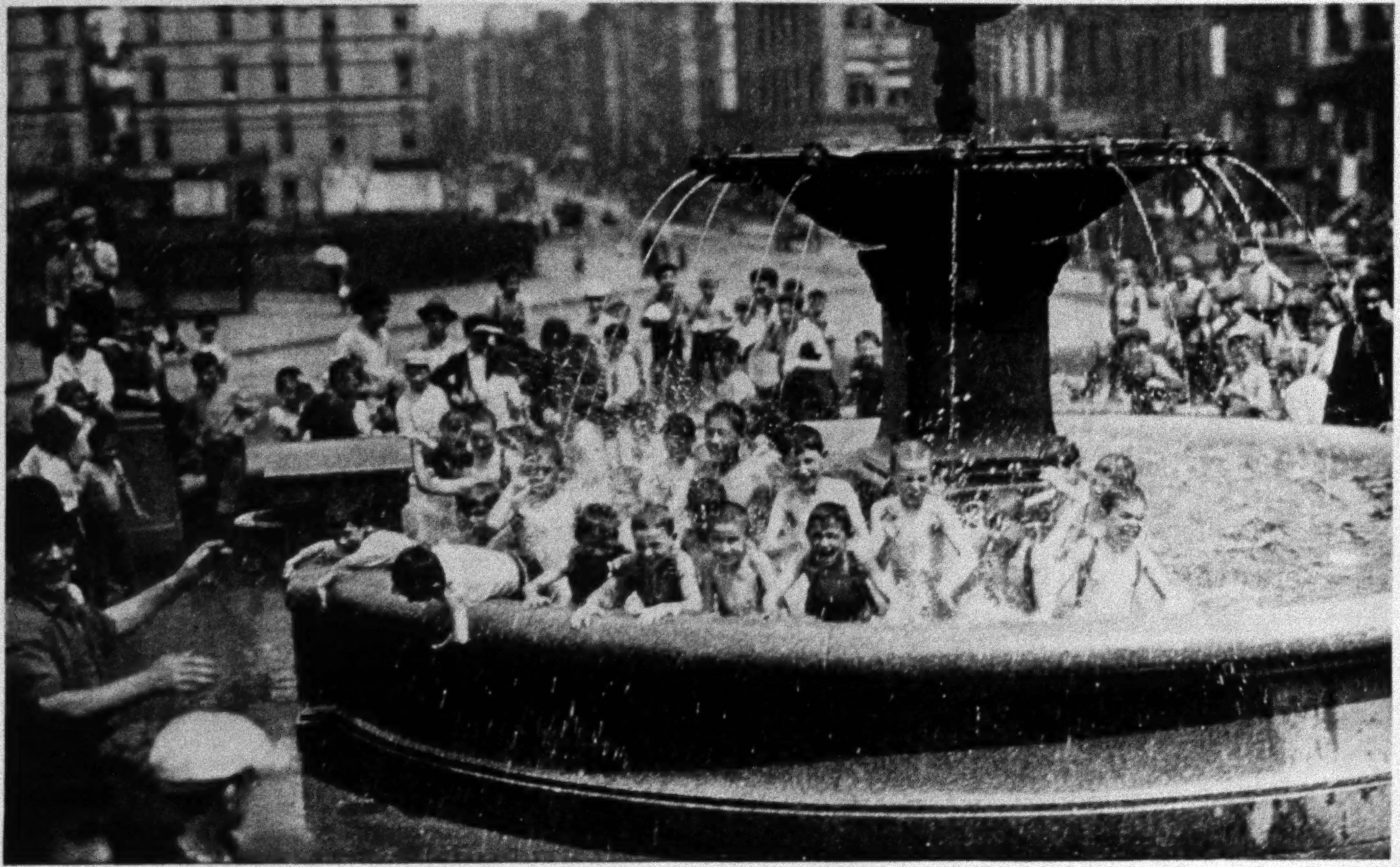
Five enormous steel bridges span the East River. Their combined cost was half as much as the Panama Canal. Three of them are suspended from cables the wires of which, if placed end to end, would more than twice girdle the earth. If placed side by side, these five great structures would provide a roadway as wide as the Washington Monument is high, and if placed end to end they would make a great bridge over six miles long. Over the Brooklyn Bridge alone 125,000 surface cars travel every twenty-four hours, with other vehicular traffic in proportion. The new Hell Gate Arch Bridge, to be opened about January, 1917, will carry four tracks of the New York Connecting Railroad, facilitating the service of at least two great lines.



Copyright by Edwin Levick

IF PETER MINUIT COULD SEE THIS, WHAT WOULD HE SAY?

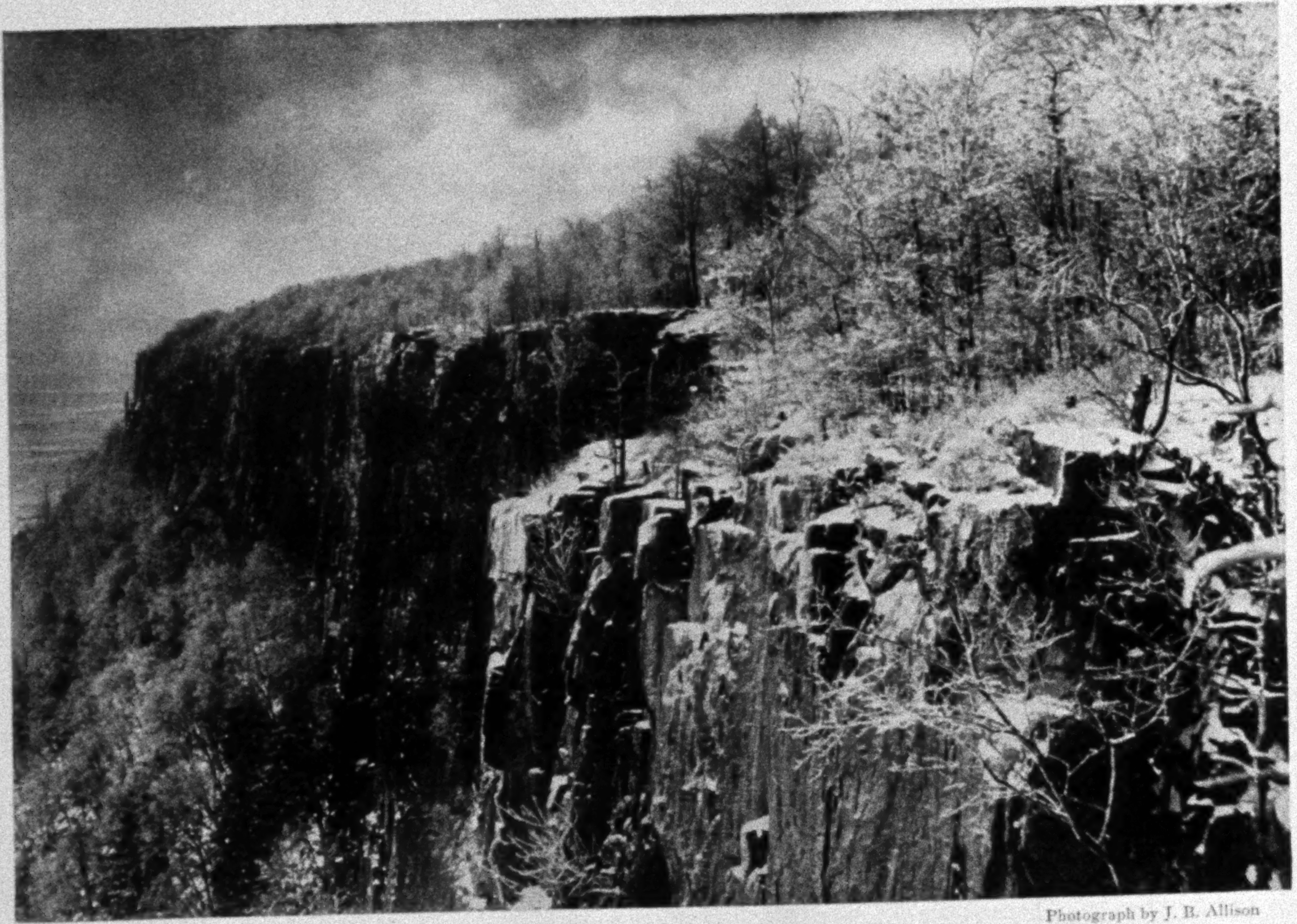
Peter Minuit, the first Dutch governor, who is said to have bought Manhattan Island from the Indians in 1626 for about twenty-five dollars in red cloth and beads, would now be able to sell it in city lots for something like $3,000,000,000. Peter probably bought more wisely than he knew, however, for it is not likely that he dreamed of office buildings half a hundred stories high, and never investigated the foundation possibilities of the island, the solid rock of which makes it possible to build the city so far up into the sky.



Photograph by Edwin Levick

"AW COME ON IN—THE WATER'S FINE"

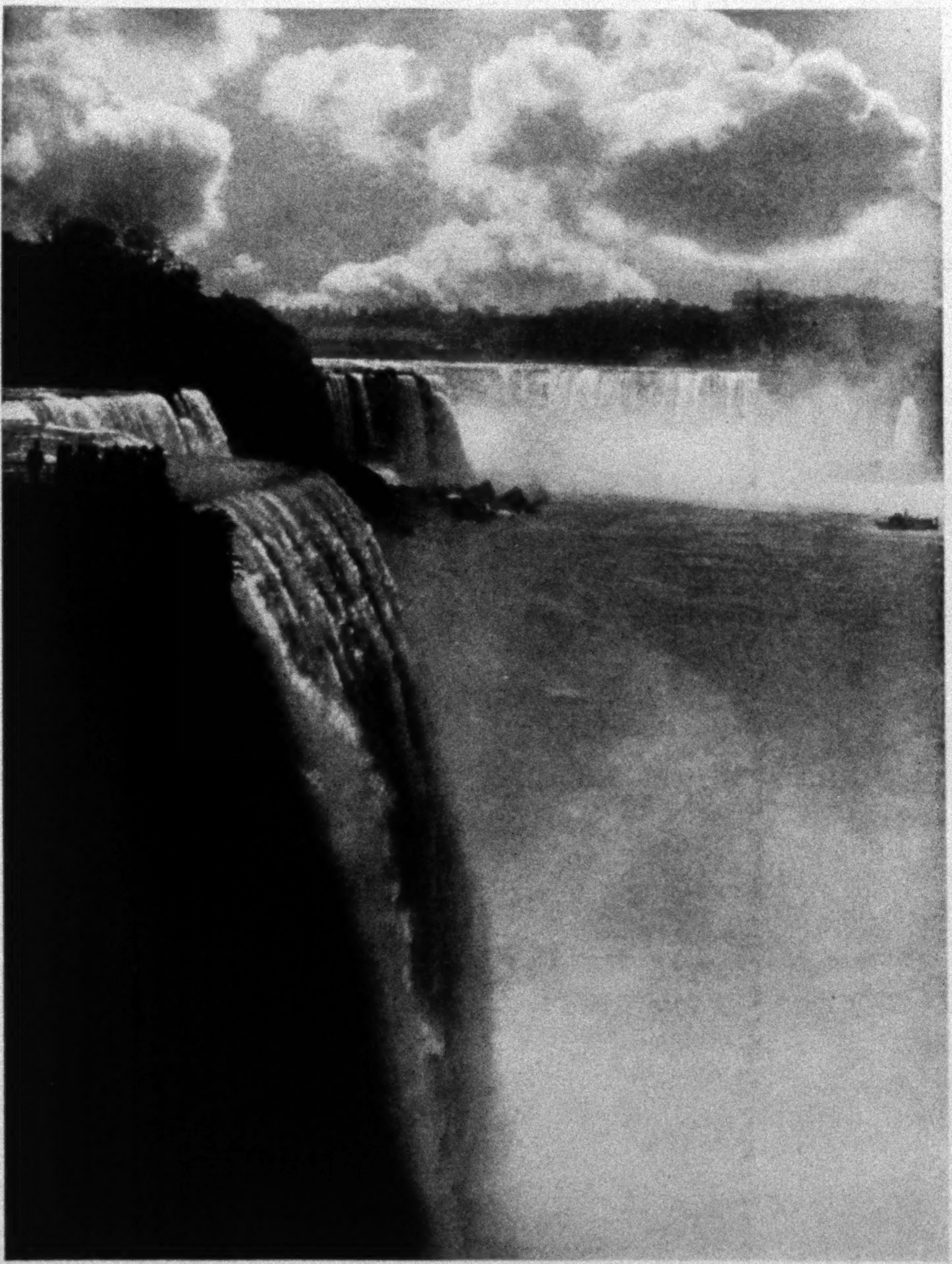
New York policemen develop bad eyesight in the vicinity of park fountains on hot days, and those young Americans who play such an important part in the publishing business, distributing hundreds of thousands of newspapers, realize the visual deficiencies of these guardians of law and order. The bluecoat saunters off to the farthest corner of his beat and the boys jump into the fountain



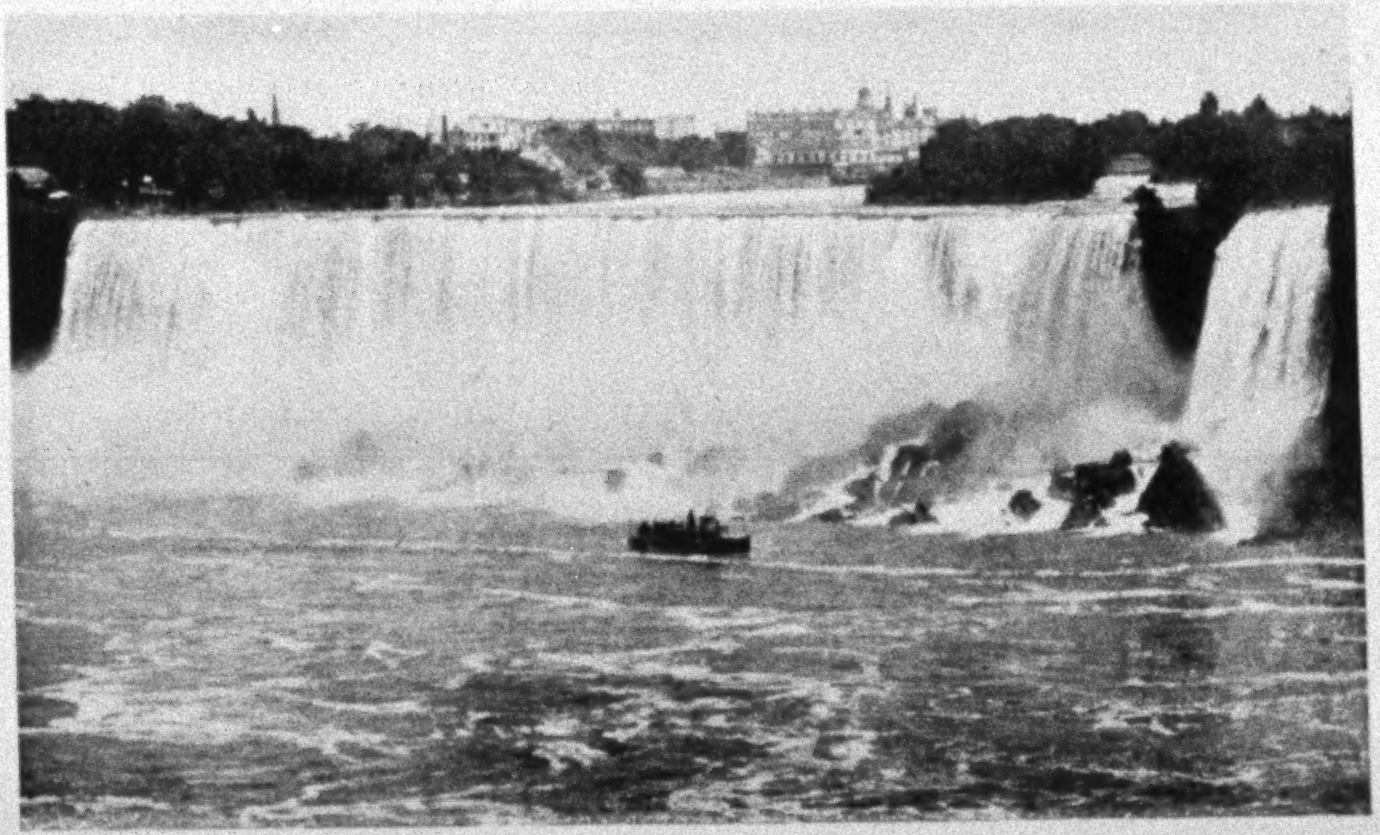
Photograph by J. B. Allison

THE PALISADES OF THE HUDSON, NEAR ALPINE, NEW JERSEY

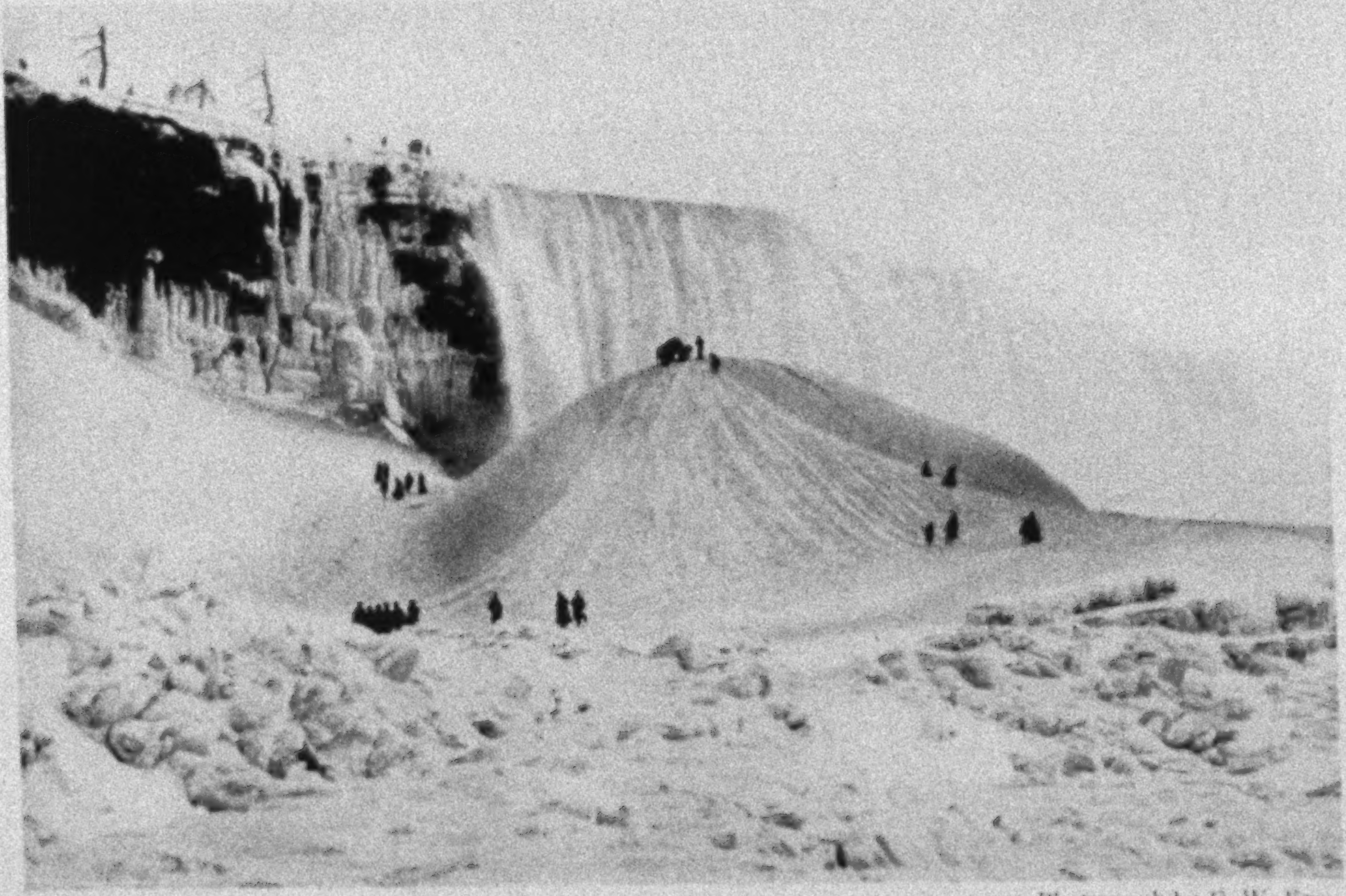
One cannot too heartily commend the spirit that citizen and State alike displayed in the preservation of the Palisades along the New York-New Jersey shore of the Hudson River. It seemed that the trap-rock quarryman was going to forever ruin their beauty, and that the continued acquisition of lands along the Hudson for private purposes was destined to deny to the public at large free access to the shores of the American Rhine. But in 1900 New Jersey and New York took joint action for the acquisition and dedication to the public of 10,000 acres along the banks of the river and the creation there of an interstate park. Ten years later Mrs. Edward H. Harriman and many other public-spirited people joined hands with the two States and acquired 10,000 acres more.



NIAGARA FALLS, CIVILIZATION'S SUPREME SPECTACLE IN WATER



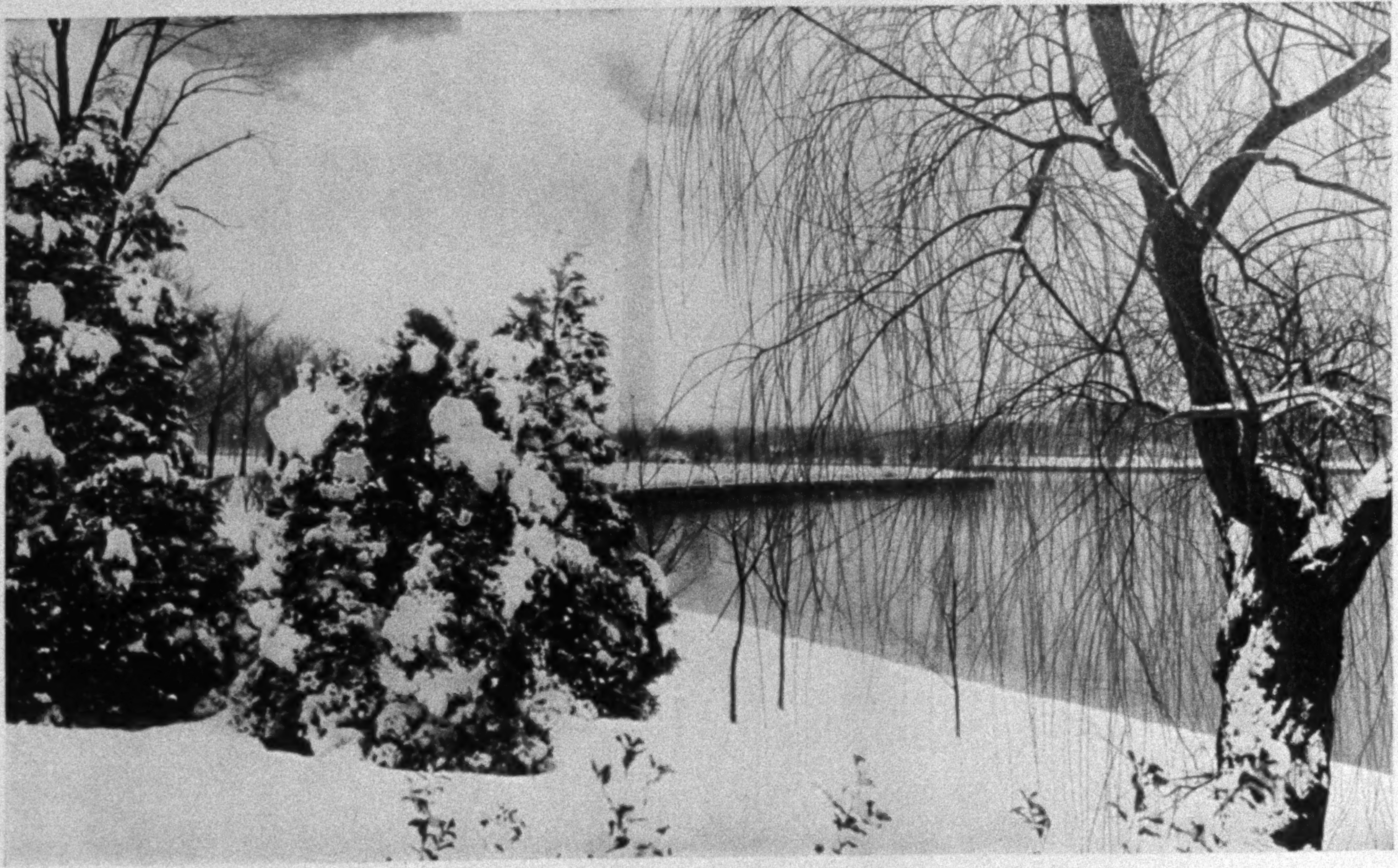
THE AMERICAN FALLS: NIAGARA



Photograph by E. W. Fox

IN THE GRIP OF THE ICE KING: NIAGARA FALLS

Though Niagara is awe-inspiring and soul-conquering in its thundering power, the silent, noiseless, eerie army of the Ice King sometimes steals upon it, stills its thunders, and transforms its plunging waters into solid masses of ice.



Photograph by Charles R. Martin

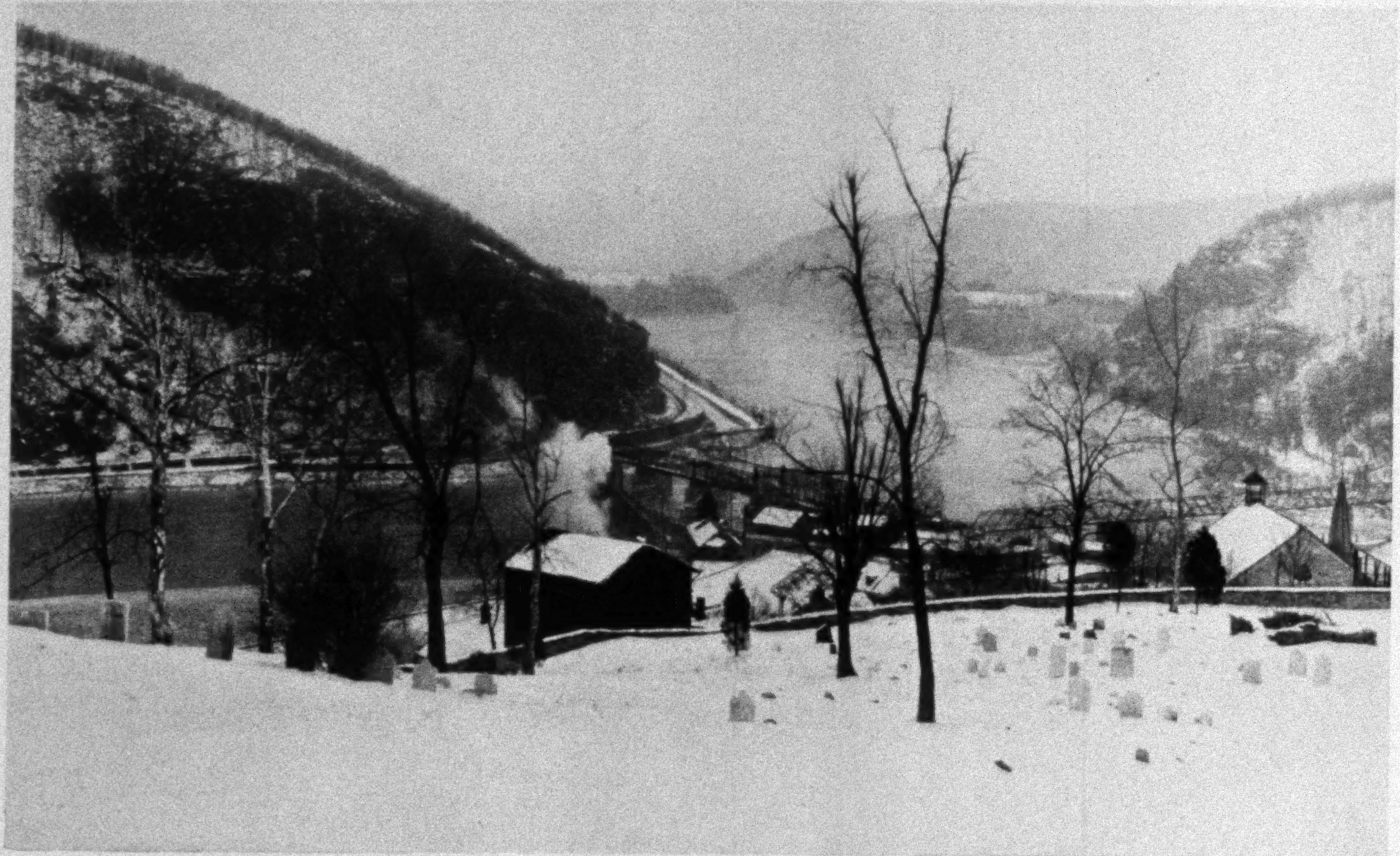
THE WASHINGTON MONUMENT, LOOKING ACROSS TIDAL BASIN FROM THE POTOMAC

Expositions come and expositions go, but there is one great exposition that is always in season, perennial in its beauty, enduring in its interest, and rich in its exhibits; the nation's capital is an "always open" exposition of American history and American achievement. Weeks can be spent profitably within the shadow of the Washington Monument, visiting the great exposition halls which have not been built for a month or a year, but to endure for time to come.

Photograph by Charles R. Martin

THE CAPITOL AT WASHINGTON AFTER A SNOW-STORM

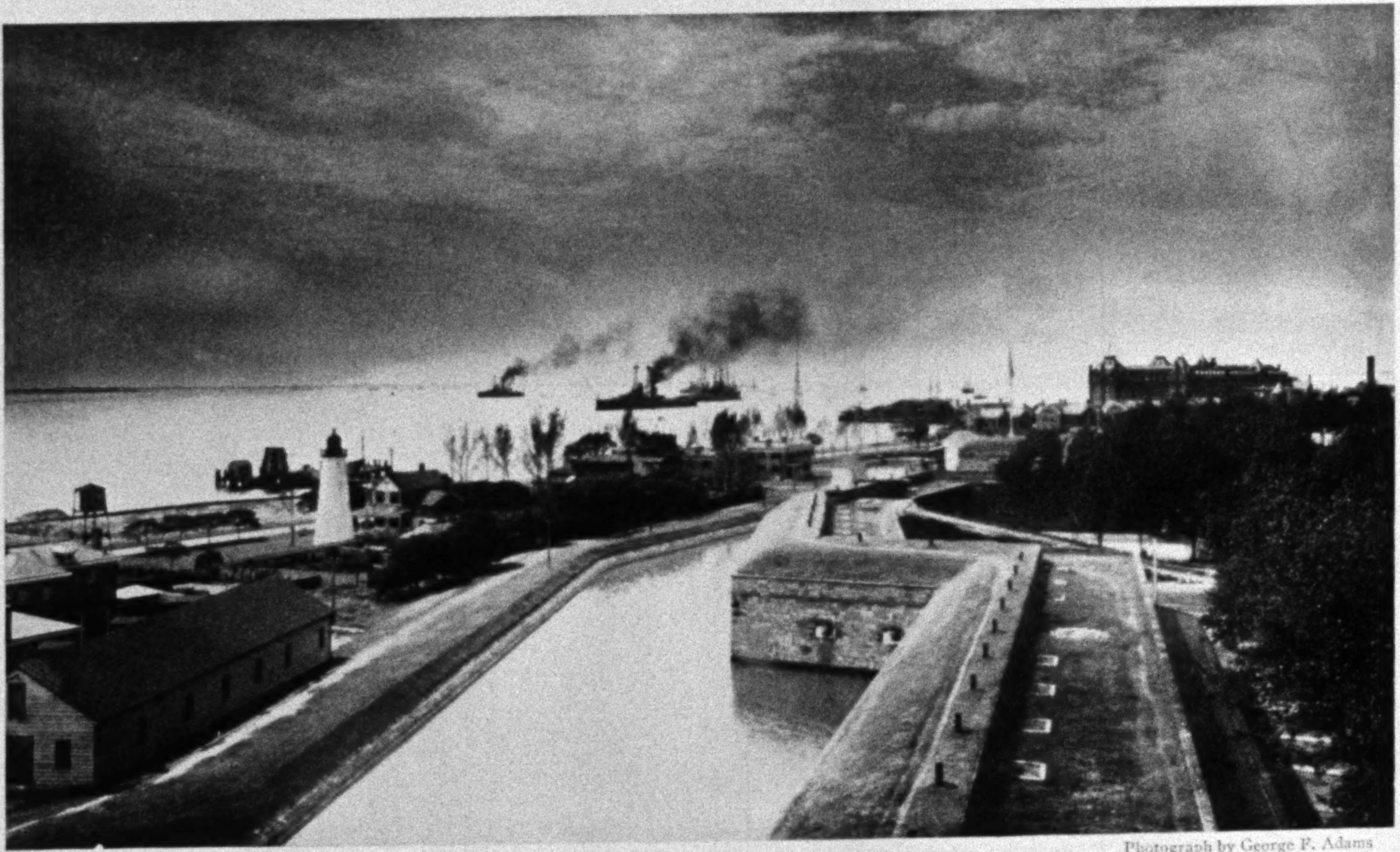
Underneath this imposing dome the laws of the nation are enacted by Congress, having now a membership of between five and six hundred representatives from the forty-eight States. Under it also sits the United States Supreme Court—the Federal tribunal of last resort. It represents the beginning and the end of law. Every tourist ticket should read via the nation's capital.



Photograph by Eugene J. Hall

THE TOWN OF JOHN BROWN'S RAID: HARPERS FERRY, WEST VIRGINIA

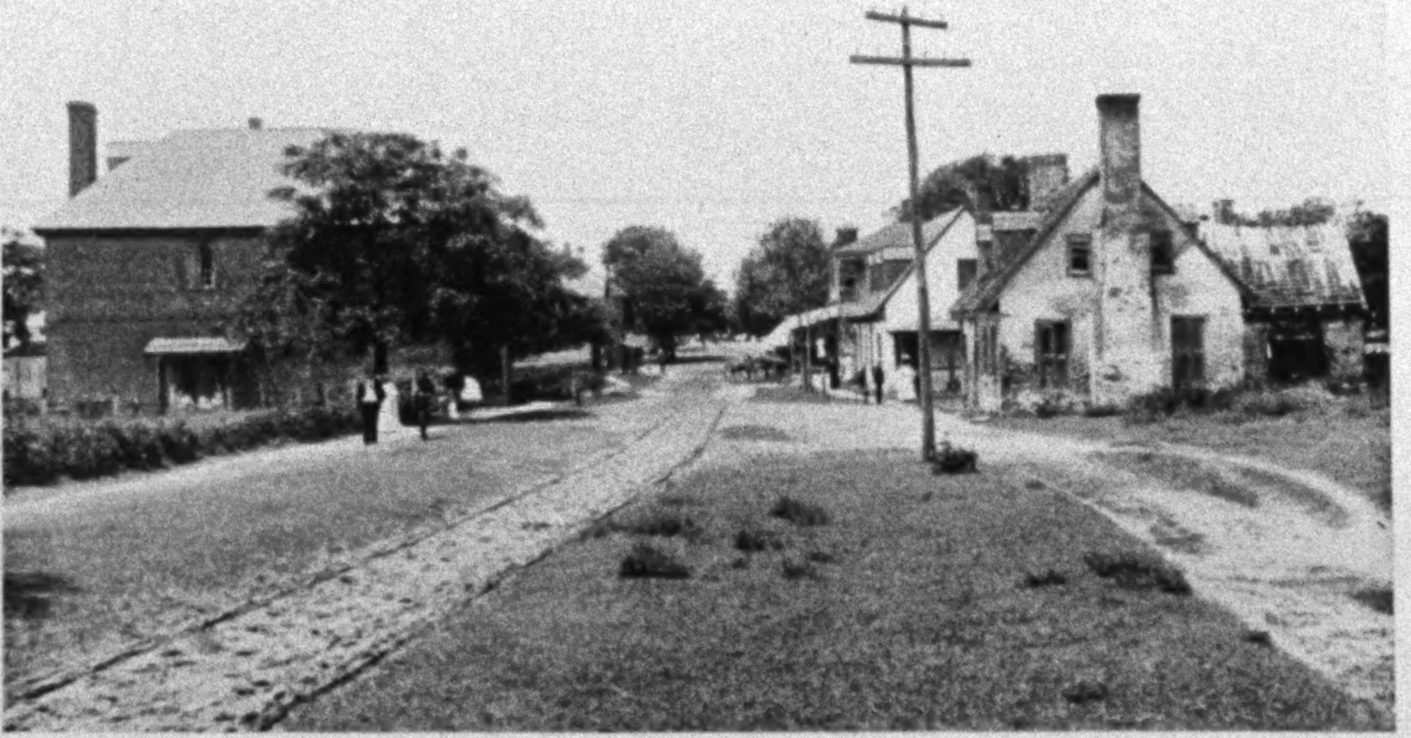
Where the Shenandoah, called by those who live in its famous valley "fair daughter of the skies," joins the Potomac at Harpers Ferry they make a picture of seldom-exceeded natural beauty. Jefferson called the gorge through which the Potomac passes the Blue Ridge Mountains "one of the most stupendous scenes in nature." Of course, if he had seen the Grand Canyon, the Yellowstone National Park, Yosemite, or the Royal Gorge, he would not have put it so strongly; but Harpers Ferry none the less is a bit of scenery which a whole nation may well treasure.



Photograph by George F. Adams

A VIEW OF FORT MONROE AND OLD POINT COMFORT, VIRGINIA

In no territory of like extent in the United States is more historical interest gathered than in that which borders Hampton Roads. Here was planted the first English colony in America; here was held the first gathering of the people's representatives to make their own laws; here were erected the first fortifications in the English-speaking New World; here was fought the land battle that terminated America's War of Independence and the naval battle that revolutionized the warfare of the sea. The first fortifications where Fort Monroe now stands were built 305 years ago, in 1611. Since that time, with short lapses, there has been some sort of a fortification always guarding the entrance to Chesapeake Bay. Rich in history, balmy in climate, charming in prospect, the Old Point region has entertained its hundreds of thousands with Virginia hospitality.



THE MAIN STREET OF YORKTOWN, VIRGINIA, WHERE CORNWALLIS SURRENDERED TO WASHINGTON IN 1781, NEAR THE MOUTH OF THE YORK RIVER, 33 MILES FROM NORFOLK

The house on the left was the first custom-house in America. The ox-cart is still more in evidence than the automobile. Here stands the house of General Nelson, the Virginia patriot, who offered twenty guineas to the first cannoneer who would hit his house, saying that it meant nothing to him while it harbored the enemy of his country—Cornwallis. And a cannon-ball embedded in the chimney tells a story of good gunnery.

versities which honor the names of their founders, Elihu Yale and John Harvard? Surely Oxford and Cambridge have rendered no more conspicuous service to Europe than Harvard and Yale to America!

And there are many other college communities whose halls are fragrant with traditions more inspiring to Americans than any of the memories associated with the university buildings which tourists visit in Europe — William and Mary, where Jefferson and Monroe were college boys; the University of Virginia, founded by Jefferson; Princeton, the university which graduated Madison and where Joseph Henry taught.

THE EMPIRE STATE

From its metropolis in the southeast to Niagara on the west, from Plattsburg on historic Lake Champlain to picturesque Lake Chautauqua, the Empire State is full of lure for the traveler. New York City is the most cosmopolitan community of the earth. There are more Jews in it than in Jerusalem, more Italians than in Messina, more Germans than in Bremen, and more Slavs than in Kishinef.

Some one has said that New York is a city that is all things to all men; that the artist translates it in terms of beauty, the practical man in terms of efficiency. He adds that everywhere it is spectacular, the big setting of a big drama, a place of endless experiment and achievement, the city of skyscrapers, whose elevators convey one with the speed of an eagle to dizzy summits, from which those who walk the narrow street below seem like so many ants following their daily toil.

To the Hudson River many a world traveler has paid tribute. George Wil-

Photograph by H. C. Mann

BRUTON PARISH CHURCH: WILLIAMSBURG, VIRGINIA

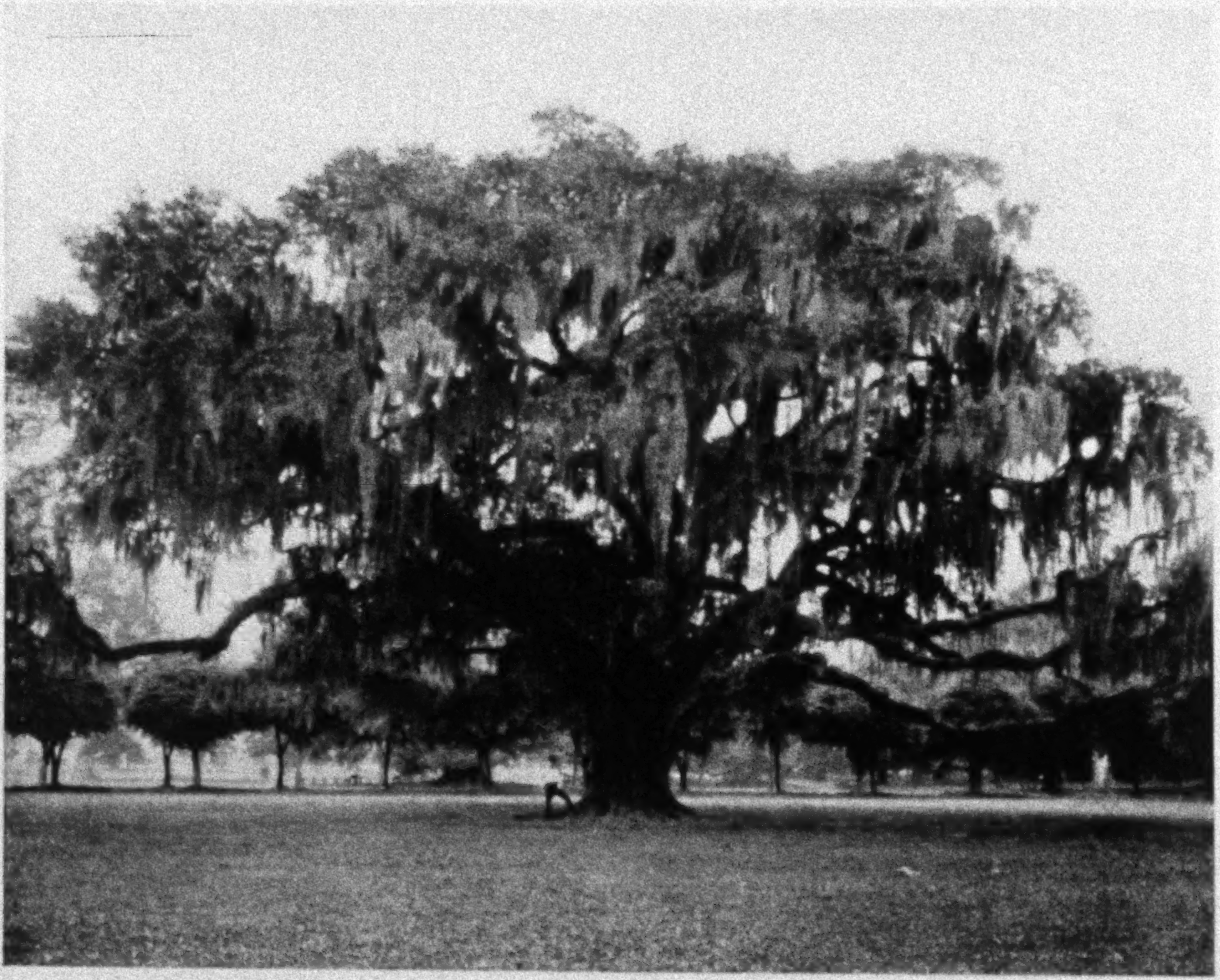
Bruton Parish Church was built in 1710 and is the oldest church in continuous use in the United States. It was more intimately associated with colonial history than any other building in Virginia. Five Presidents of the United States—Washington, Jefferson, Madison, Monroe, and Tyler—worshipped here, as did also all of the colonial governors and the members of the House of Burgesses for three-quarters of a century. Among its interesting relics are the Jamestown baptismal font and communion service.

liam Curtis declared that "the Danube has in part glimpses of such grandeur, the Elbe sometimes has such delicately penciled effects, but no European river is so lordly in its bearing, none flows in such state to the sea. Of all our rivers that I know, the Hudson, with its grandeur, has the most exquisite episodes; its morning and evening reaches are like the lakes of a dream."

The trip from New York up the Hudson is one of rare delight, whatever the season, for between the magnificent country estates and the history and legends of Tarrytown and Sleepy Hollow, of West Point and the Catskills, there is romance and entertainment in every mile. But when autumn comes, and the trees reach their unanimous verdict that the colors of the rainbow should be matched by the colors of their foliage, the traveler upon its waters might well "doubt if Eden were more fair."

The Adirondack region, stretching from Canada down almost to the Mohawk Valley and from Lake Champlain to the St. Lawrence River, will ever claim the loyal admiration of the tens of thousands who visit it. The beauty of its intricate chain of lakes, the solitudes of its deep wilderness, and the magic of its flaming chasms linger in the minds of all who have wandered there.

Upon the southeastern border of these mountains lies Lake George, a gem in a setting of mountains. The Italian thinks



Photograph from M. L. Alexander

THE WASHINGTON OAK, THE LARGEST LIVE-OAK IN THE WORLD: AUDUBON PARK, NEW ORLEANS, LOUISIANA

The gnarled, wide-branched oaks and the funereal Spanish moss are not confined to Louisiana's vast virgin forests. They come right down into the city, and one who rides through Audubon Park and feels its restful spell cannot but accept, at least in part, New Orleans' proud boast that she is the "city that care forgot."

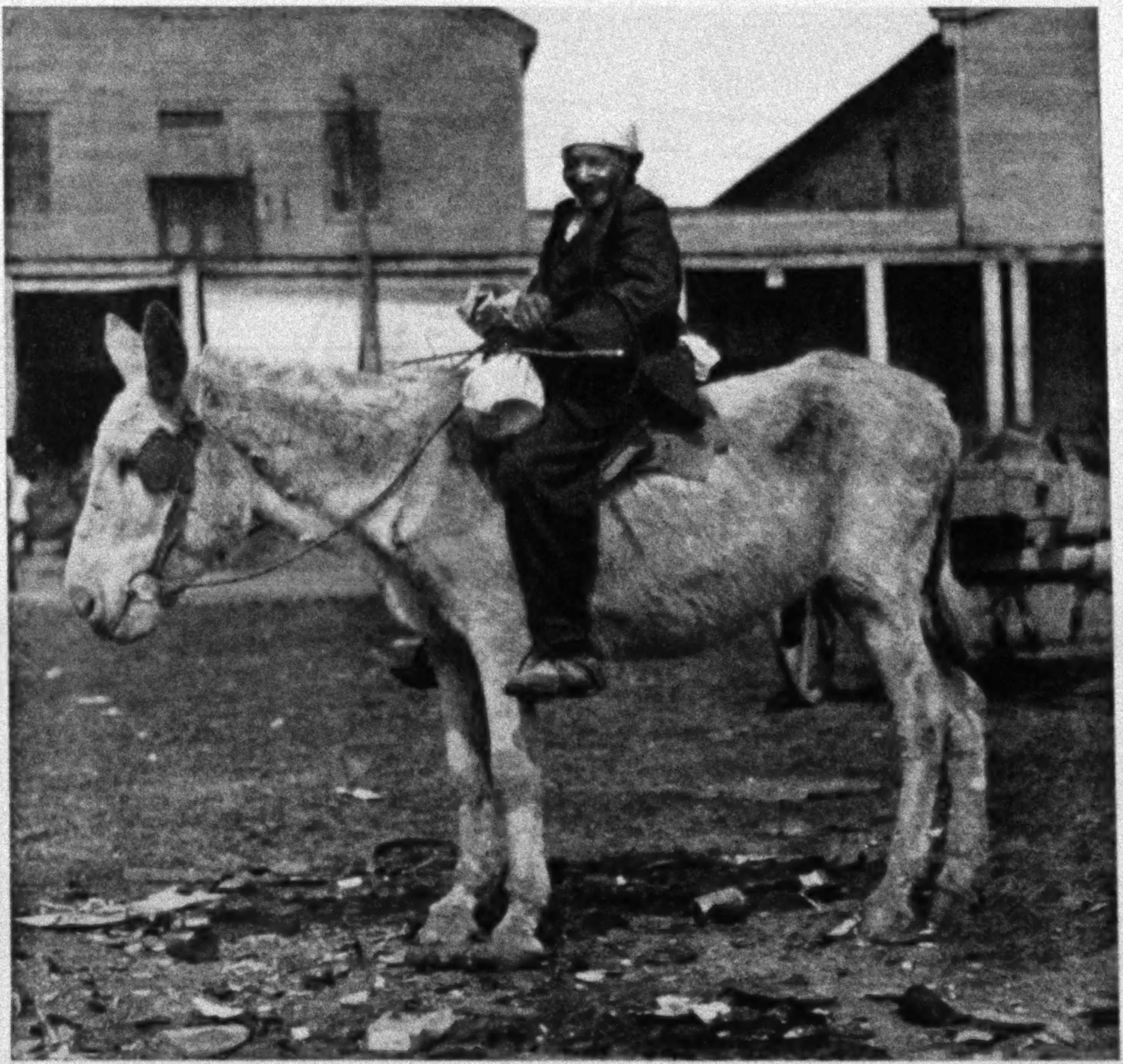
of it as Como, the Englishman as Windermere, and the Scot as Katrine, for it possesses much of the enchantment of each of these famous waters.

In central New York are to be found those remarkable lakes which we know as Oneida, Cayuga, and Seneca.

The culminating spectacle of the East, by unanimous consent, is Niagara Falls. The Indians described it in a phrase than which no word-painter has ever found one more expressive. They called it the "Thunder of Water." Niagara is without a setting. Some scenes gather as much from their surroundings as they themselves possess; like a mirror, they borrow some of the loveliness we behold in them from other sources. But Niagara has all its beauty and sublimity within itself. There is nothing of charm or attraction in the approach to it from whatever direction.

Just as the United States is setting aside national parks and national monuments in the West for the benefit of the generations that shall come after us, so New York, in particular, is making reservations, historic and scenic, for the benefit of her people.

The American Scenic and Historic Preservation Society is incorporated under the laws of that State and has been intrusted with the custody of most of these places. It annually makes a report to the Governor, showing what steps are taken, and has labored with unusual success in its field. Letchworth Park and Fort Ticonderoga, the one an example of



Photograph by Hypo Coquille

UNCLE EPH'M AND HIS OLD GRAY MULE IN FROM THE COUNTRY: BAYOU SARA, LOUISIANA

This is a surviving touch of the old South, of the days of "My Old Kentucky Home," "Suwanee River," and "Old Black Joe"

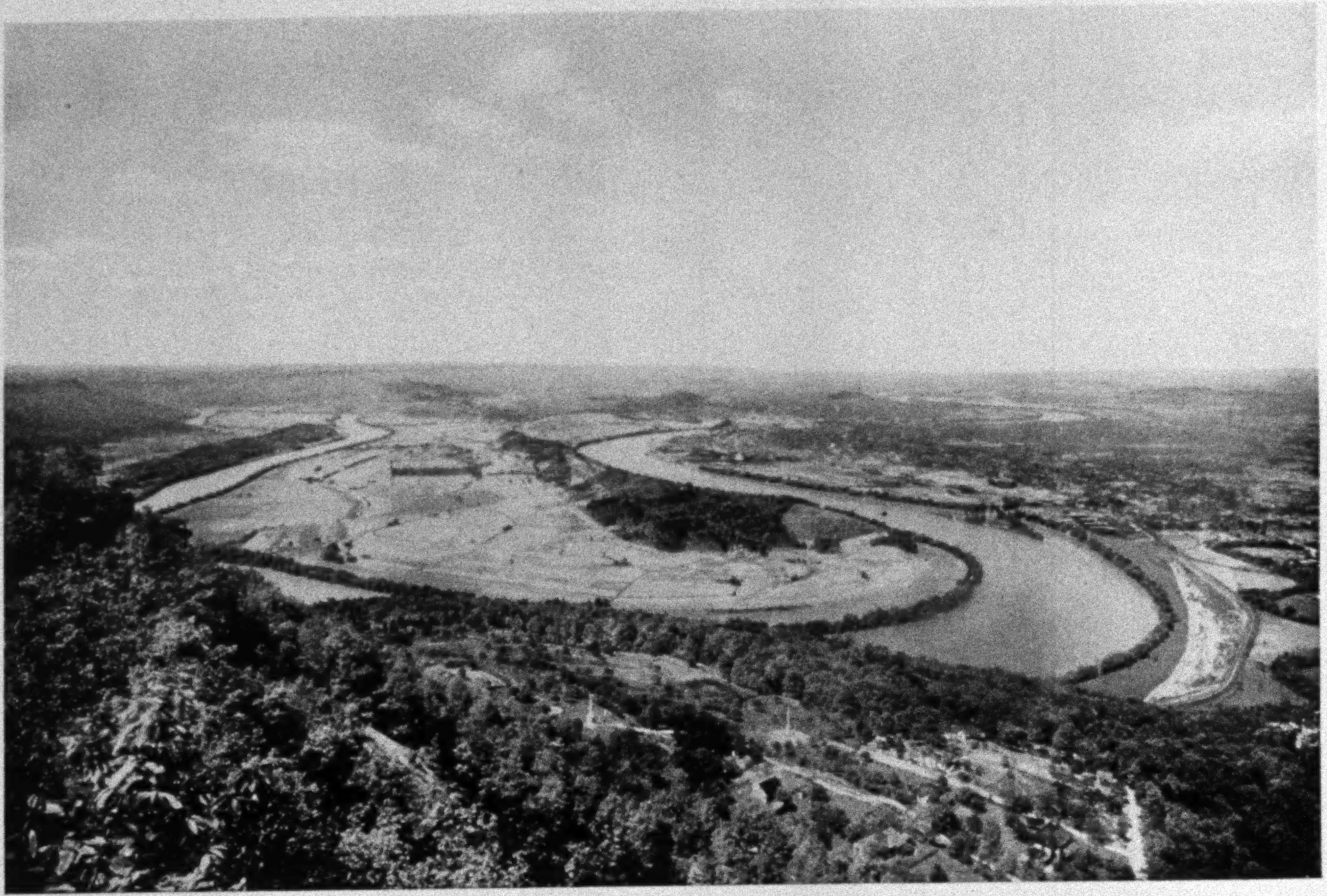
the places of natural beauty and the other of the places of historic associations, are under its control.

INDEPENDENCE HALL AND VALLEY FORGE

The State of Pennsylvania has her share of shrines. In Philadelphia there is Independence Hall, than which there is no more hallowed edifice in Europe or America, for it was in this old brick building that democracy had its birth. Surely no place in Europe holds as just an appeal to the lover of liberty.

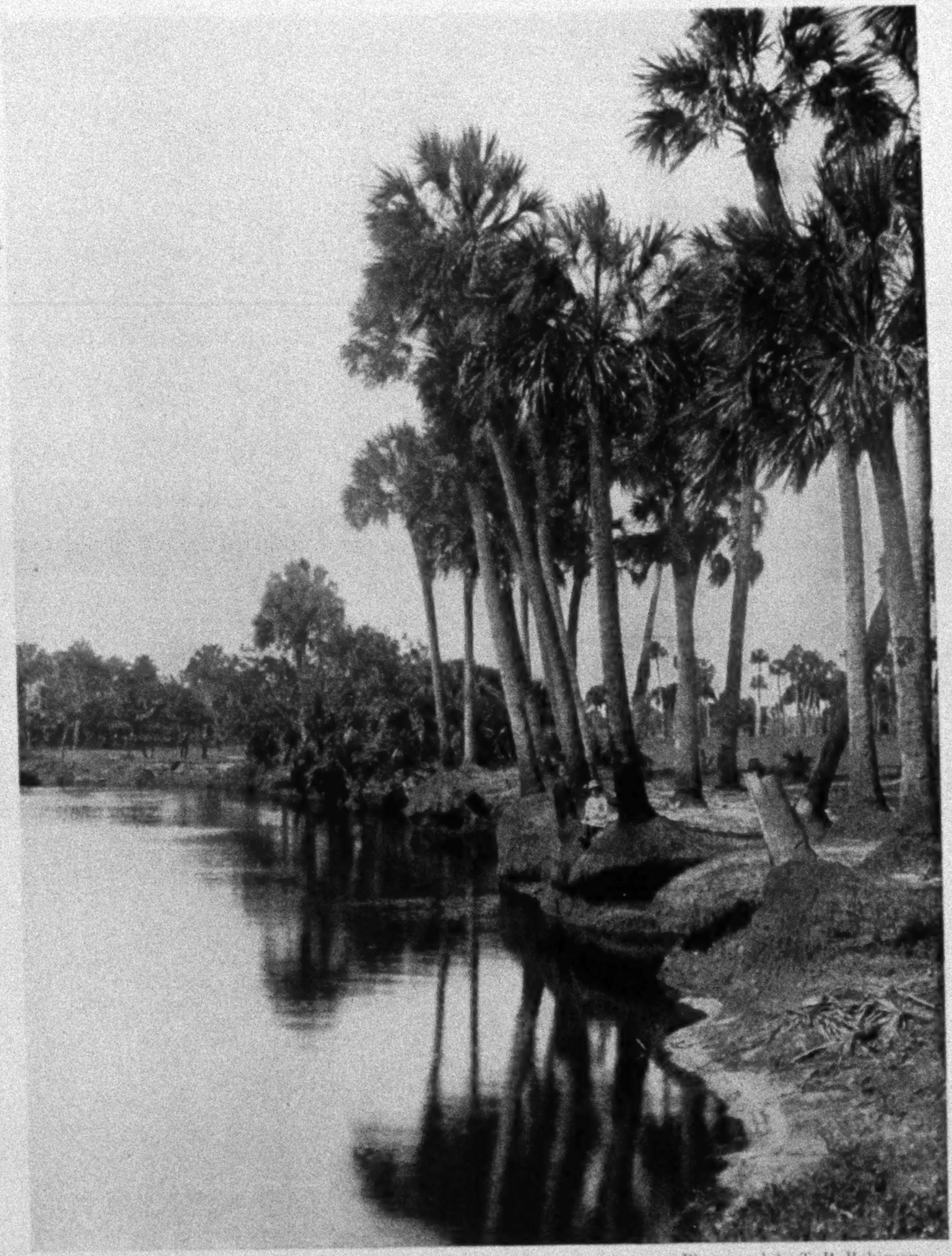
And then there is Valley Forge, set aside by the State of Pennsylvania as a park. How can Americans better comprehend the sufferings and sacrifices out of which our nation was born than to go to Valley Forge, and there on the very ground read the story of that cruel winter which moved the Father of His Country to tears!

Within a few hours from Philadelphia, Baltimore, or Washington is the battlefield of Gettysburg, listed by the historian Creasy as one of the fifteen decisive battles of all time. As you make your pilgrimage to the sacred field through Mary-



CHATTANOOGA AND THE MOCCASIN BEND OF THE TENNESSEE RIVER FROM LOOKOUT MOUNTAIN

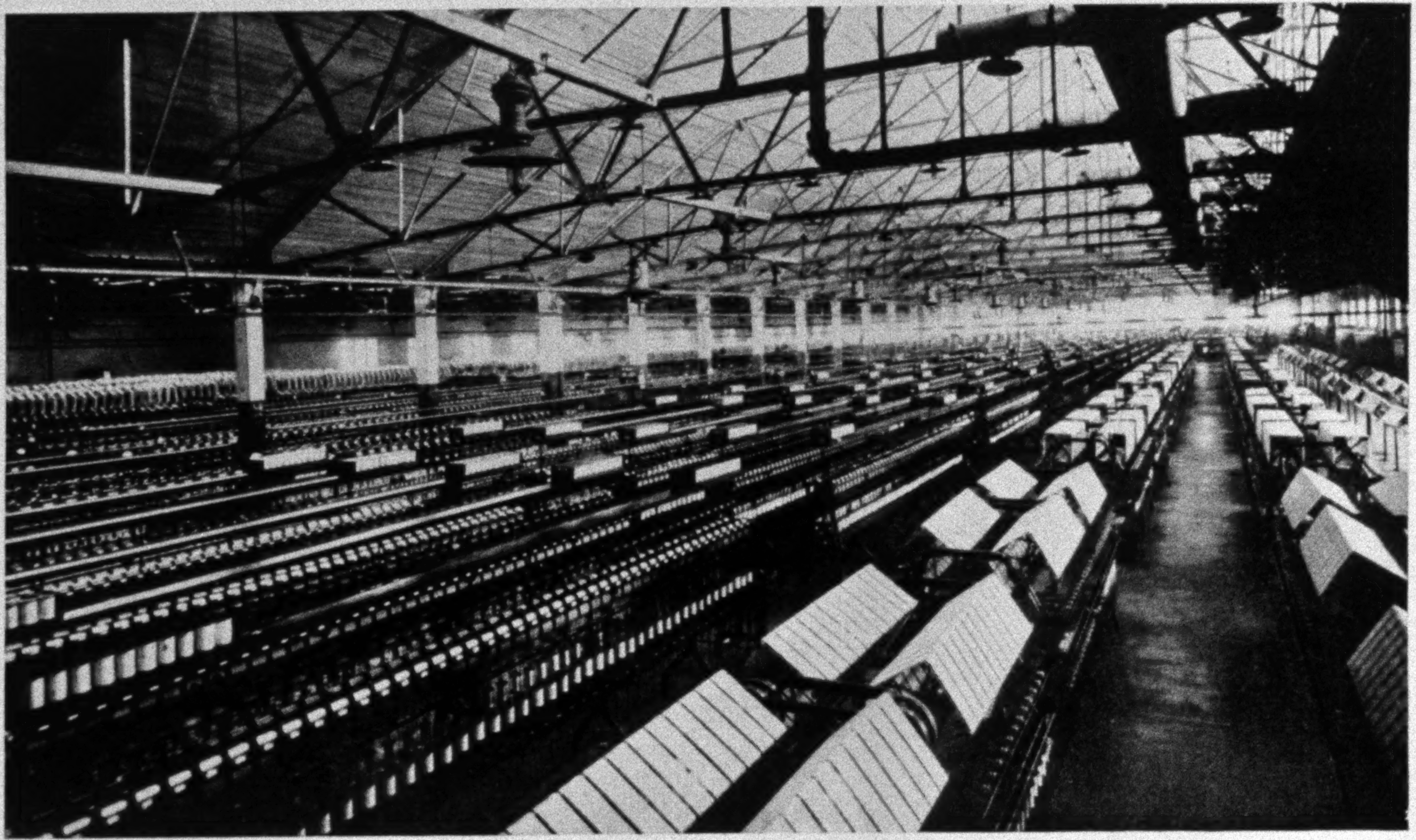
Eastern Tennessee and western North Carolina have some of the most beautiful landscapes in America. History and nature conspire to lend the whole region a deep and abiding interest. The picturesqueness of the Lake Toxaway country of North Carolina and the Civil War history of the Lookout Mountain country have a wide appeal and make friends of all who journey that way.



Photograph by T. P. Robinson

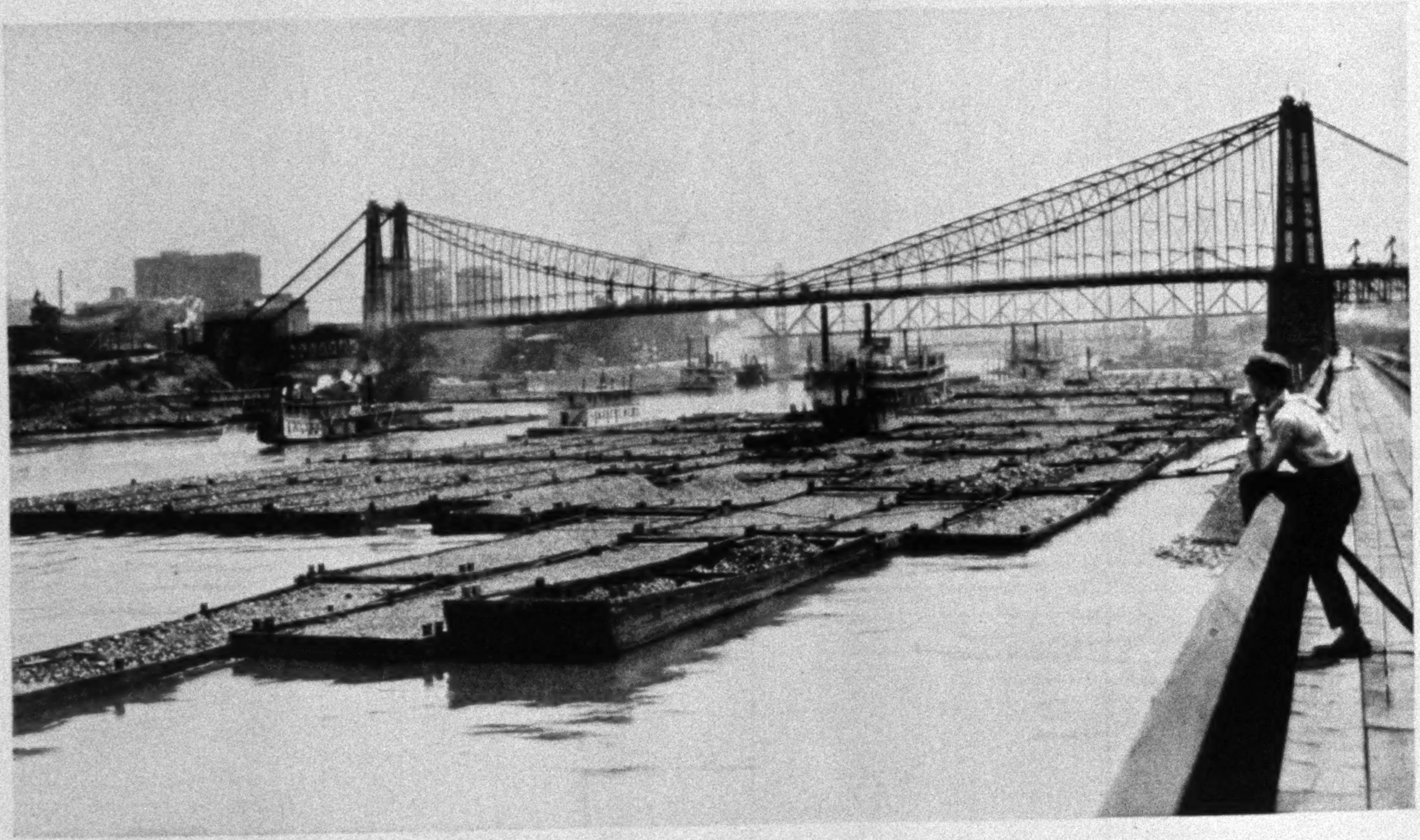
THIS IS NOT A SCENE ON THE BANKS OF THE NILE, BUT A VIEW ON ECONLOCATCHEE CREEK, FLORIDA

Florida, with its cabbage palms, tropical jungles, palatial hotels, and wide, hard beaches—"the land of eternal summer"—is only thirty-five hours distant from New York and thirty-three from Chicago.



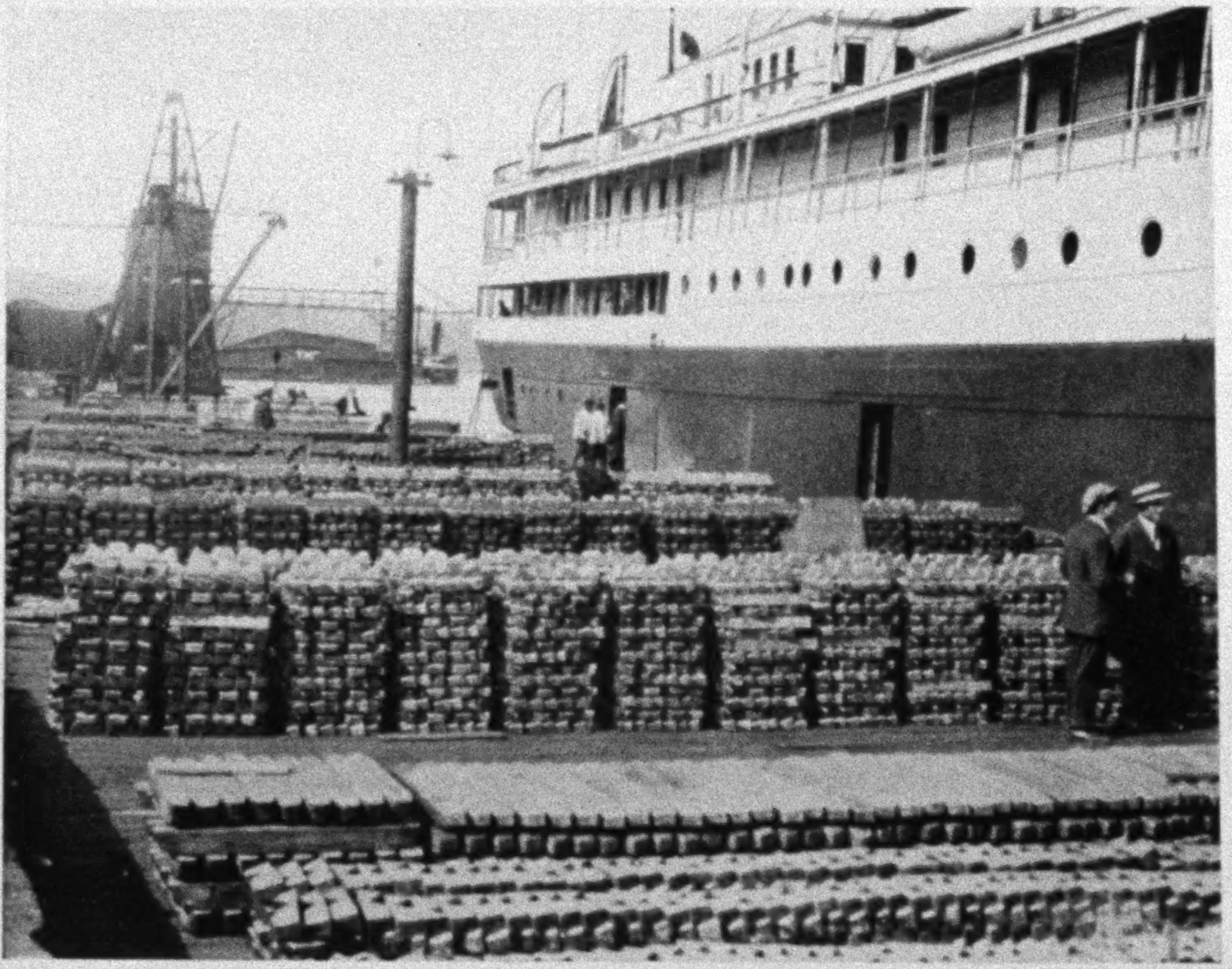
A GREAT AMERICAN SILK MILL AT SCRANTON, PENNSYLVANIA

Although Paterson, New Jersey, is America's leading silk city, to the vicinity of Scranton, Pennsylvania, comes one-third of all the raw silk imported into the United States, and some of the country's biggest silk mills are located here. The illustration above shows the interior of one of these great manufactories and a typical modern American textile mill, where a maximum of cleanliness, pure air, and floods of sunlight make for the best working conditions. This enormous room has a floor area of about 35,000 square feet, and 450 operatives are required to attend to the wants of this acre of machinery.



A VIEW OF THE ALLEGHENY AT PITTSBURGH

No, this is not gravel from the river bottom nor oysters from the bay. It's a Pittsburgh coal fleet in the Allegheny River loaded with "black diamonds" to keep alight the fires which help to make Pittsburgh one of the foremost industrial cities of the world—a furnace of Vulcan in real life.



Photograph by Gilbert H. Grosvenor

ONE OF THE COUNTLESS AMAZING SIGHTS TO BE SEEN ON THE WHARVES OF OUR GREAT LAKES: FIVE HUNDRED THOUSAND DOLLARS' WORTH OF COPPER INGOTS AWAITING SHIPMENT AT HOUGHTON, MICHIGAN

Industrially as well as scenically the United States affords fields of interest to the tourist surpassed by no other part of the world. We produce three-fifths of the world's copper, two-fifths of its iron and coal, one-third of its silver, lead, and zinc, and one-fifth of its gold.

land or Pennsylvania, you see a landscape that painters love—undulating hills, rolling fields, watered with winding streams and ornamented by groves of oak and hickory, picturesque farm-houses, and huge barns packed to the rafters with Nature's gifts, for these counties possess some of the best land and best farmers of America.

Fifty-four thousand of as brave men as ever marched to martial music mingled their blood at Gettysburg in 1863. The government of the United States has spared no effort to preserve to the future the memories of those who bore the brunt of the bitter struggle, and to mark alike the position of the Blue and the Gray of those sanguinary days. It is the best marked and best cared-for battlefield in the world. With its magnificent picture of pastoral beauty, its splendid roadways, and its eloquent monuments, Gettysburg is a sight to thrill the heart of every American.

Nowhere can we find sights and memories more precious to our hearts than those which abound in Washington, the most stately capital city in the world. The glories of the nation's capital have, however, been so well described in the pages of this Magazine by ex-President Taft and Viscount Bryce that they need not be referred to here.

Not far from Washington is Harpers Ferry, where the Potomac breaks through the mountains on its way to the sea, and the scene of John Brown's raid; here came Stonewall Jackson to capture the

Photograph by W. H. Brandel

TYPES OF AMERICAN GRAIN ELEVATORS: THE GREAT LAKES

The United States is the principal grain exporting nation in the world, having more grain elevators than the remainder of North and South America and Asia and Africa together

force which stood in the way of the Confederate effort to carry the war into Maryland and the North in 1862.

From Harpers Ferry far away to the south stretches the famous Shenandoah Valley, the granary of the Confederacy in the 60's, of which Sheridan declared that he had laid it so bare that a crow flying across it would have to carry his rations. The Valley Turnpike, once the race-course of armies, is now the peaceful highway of the automobilists who journey from the North to the South.

WALLS OF DIAMONDS AND PEARLS

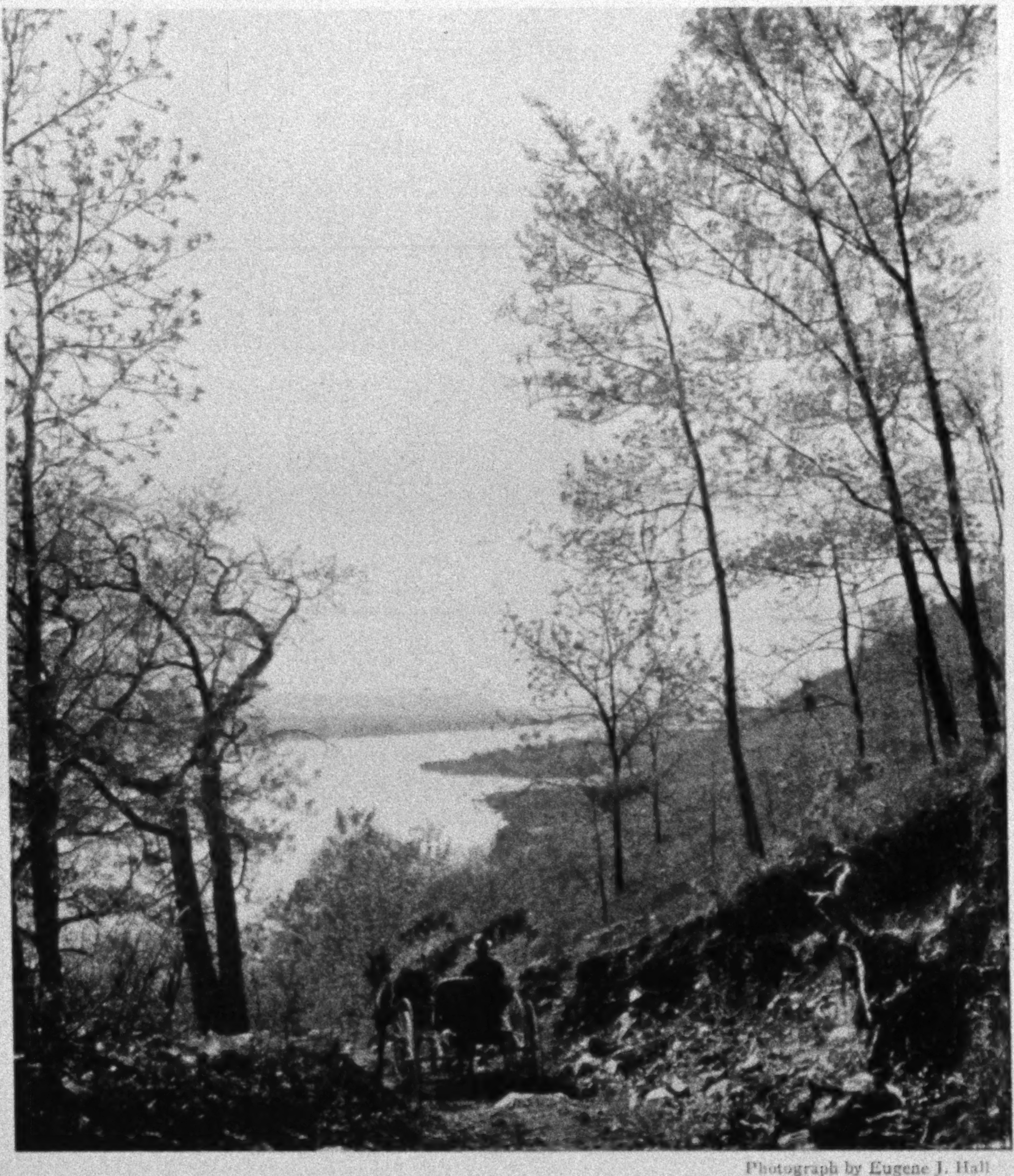
Half way up the Shenandoah Valley are the Luray Caverns, an underworld palace built by the busy hands of trickling waters. Aladdin, we are told, was once permitted to enter a cave which exhibited such decorations that its glory both dazzled and affrighted. But Aladdin never beheld anything more wondrously exquisite than the water-built architecture of Luray.

The Throne Room is canopied with curtains woven of diamonds and pearls. The Saracen's Tent has more than Oriental splendors of richest damasks and golden samite, which drape the crystal couch in festoons of magic beauty. Titania's Veil is woven of petrified spiders' webs, while the Ball-room seems as if set to celebrate a marriage between the gods.

The visitor to Luray today shares the sentiment of another visitor of long ago, who exclaimed: "Mortal hath not made the like, nor human fancy conceived a thing more magnificent!"

As one journeys westward from the Atlantic seaboard, whether by the northern route and by boat through the Great Lakes, touching at points of interest along their shores, or by one of the central routes through western Pennsylvania or West Virginia, or yet by a southern road through New Orleans, there will be discovered a continual succession of dramatic and matchless spectacles.

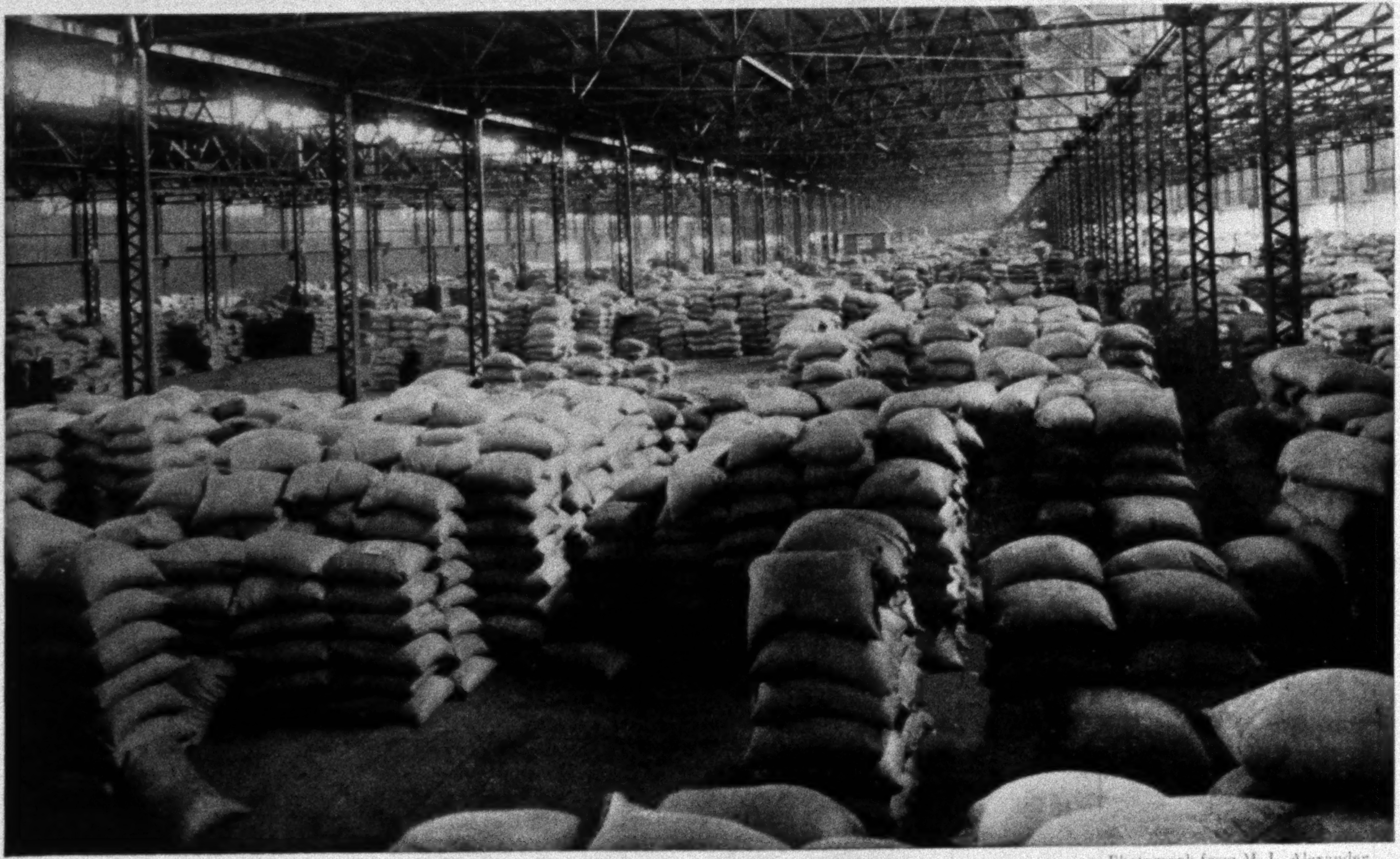
Not the least of these is the Mammoth Cave of Kentucky, the biggest cavern of the world. The discovery of the cave



Photograph by Eugene J. Hall

THE ROAD DOWN THE BLUFF NEAR ALMA, WISCONSIN: MISSISSIPPI RIVER

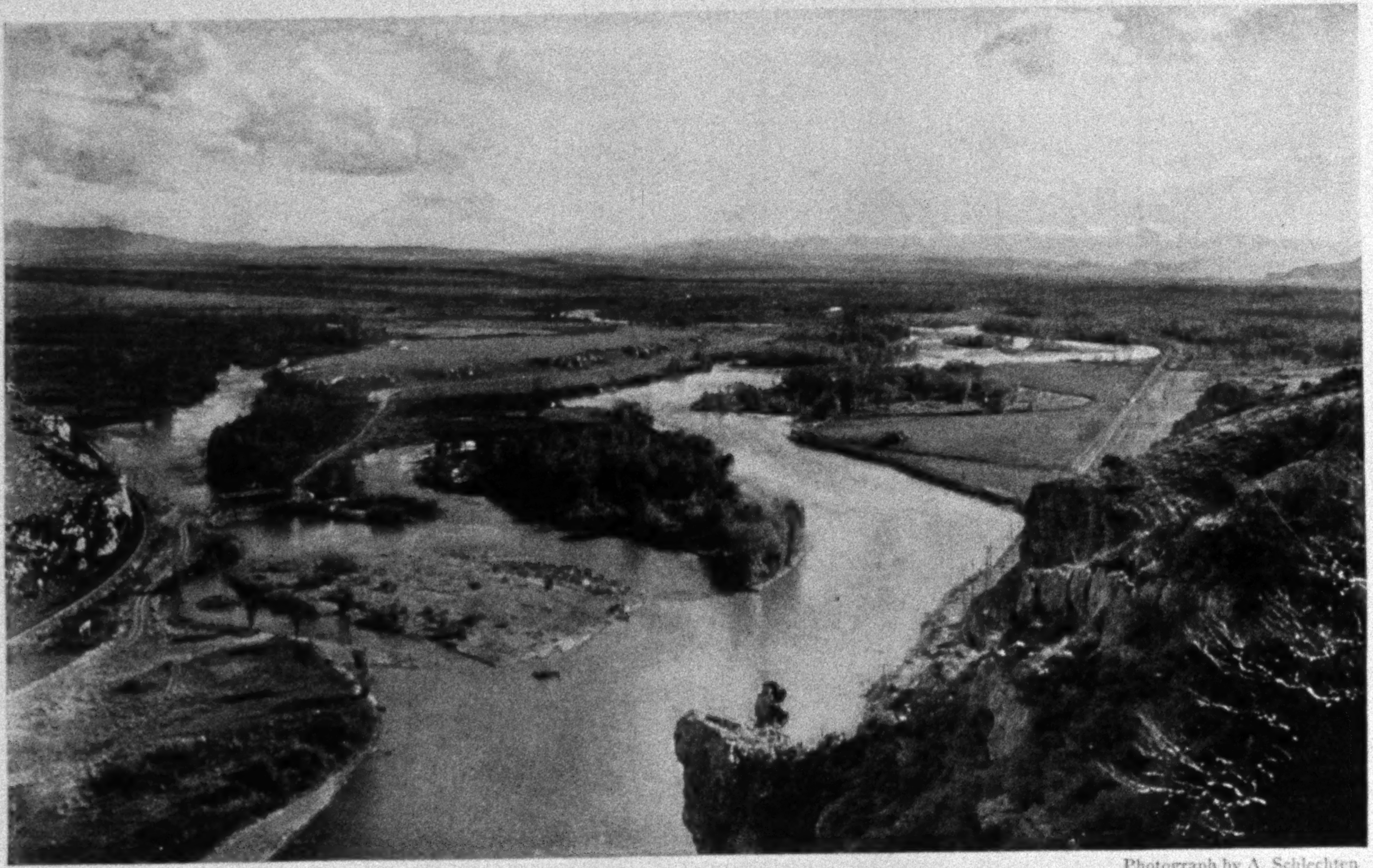
The country at the head of the "Father of Waters" was once the scene of hard-fought Indian wars and in those days, not so long ago, a wilderness of vast expanse. Now it is thickly settled by farmers, whose fields of golden wheat have brought them wealth, and many of whom now superintend the work on their farms from the rear seat of an automobile.



Photograph from M. L. Alexander

COFFEE EN ROUTE TO YOUR CUP: PORT OF NEW ORLEANS

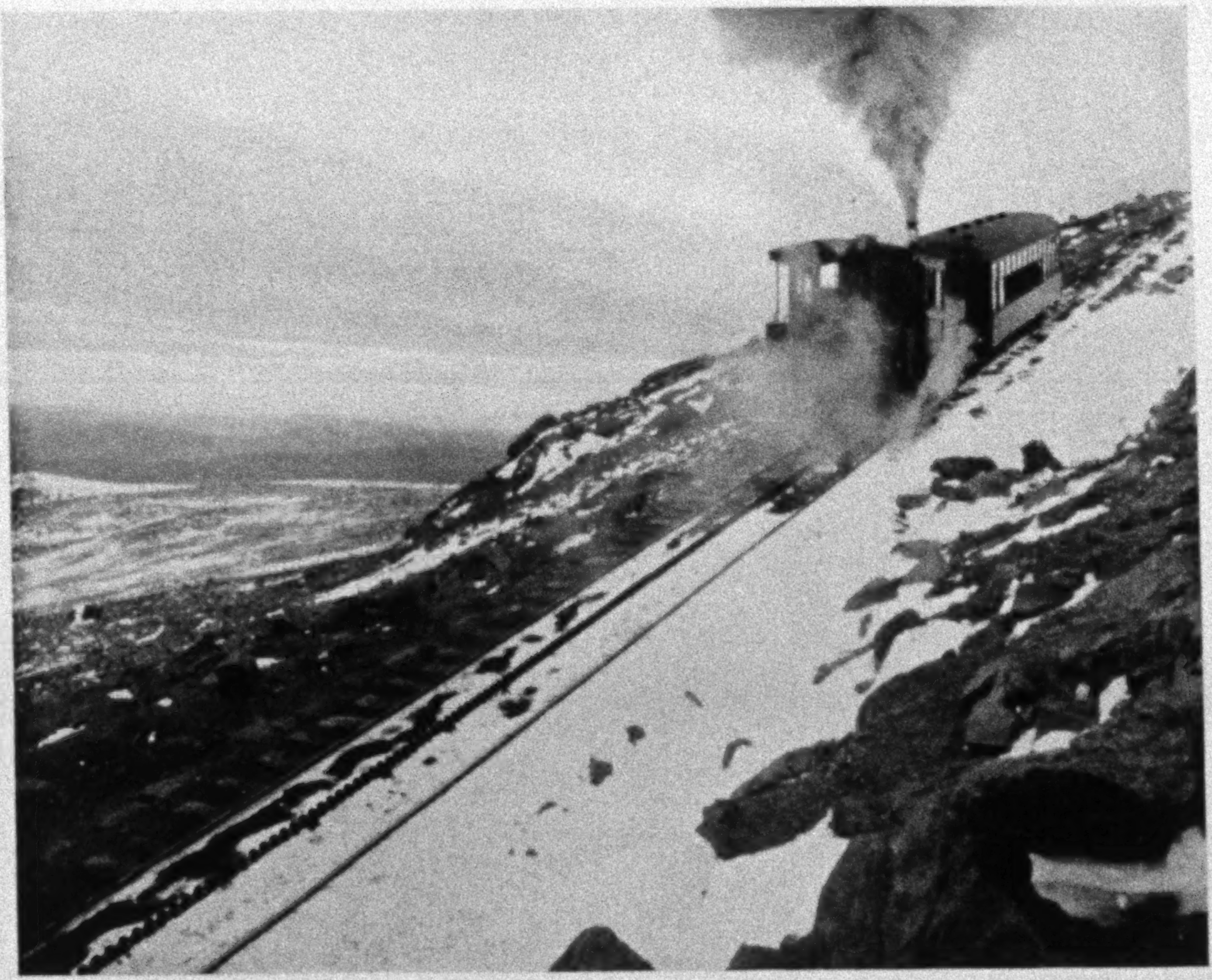
New Orleans has the largest agricultural warehouse in the world. It has a capacity of 2,000,000 bales of cotton and is adapted to the storage of all other packed commodities, such as sugar and coffee. It was built at a cost of $3,500,000 by the State of Louisiana and is said to reduce the cost of handling any agricultural commodity 40 per cent. There are 23 acres of ground under roof, while the entire plant occupies 150 acres. It is only through such giant structures as these that the United States is able to handle the vast amount of agricultural commodities that pass out of our ports.



Photograph by A. Schlechten

THREE FORKS OF THE MISSOURI RIVER NEAR THE CITY OF THREE FORKS, MONTANA

Far up in the Rocky Mountains of Montana, at the eastern apex of an equilateral triangle between Helena, Butte, and Three Forks, three mountain rivers come together to make the Missouri. They are the Jefferson, the Gallatin, and the Madison, named by Lewis and Clark in honor of President Jefferson and his two ranking advisers. It was here that Sacajawea, the Indian "bird woman," guided the Lewis and Clark expedition from the Dakotas' grasp and climbed to the top of the ridge for a survey of the country. Although carried away in her childhood, she recognized the spot as her long-ago home, and announced that she knew the territory from there to the Pacific. In the picture the river on the right is the Jefferson, that in the center the Madison, and that to the left the Gallatin.



NEARING THE SUMMIT OF PIKES PEAK ON THE COG RAILWAY

Pikes Peak, 14,108 feet, is the highest mountain in America whose summit is reached by a railroad. Little Switzerland, only one third as large as the State of New York, contains more mountain tops accessible by railway than the entire United States. It may be stated, however, without belittling the enterprise and industry with which the Swiss engineers have patiently constructed their marvelous railways to the summits of Gorner Grat, Pilatus, Brienz, Rigi, etc., that the money which financed these railways was in large part the vacation cash left in Switzerland by American tourists.

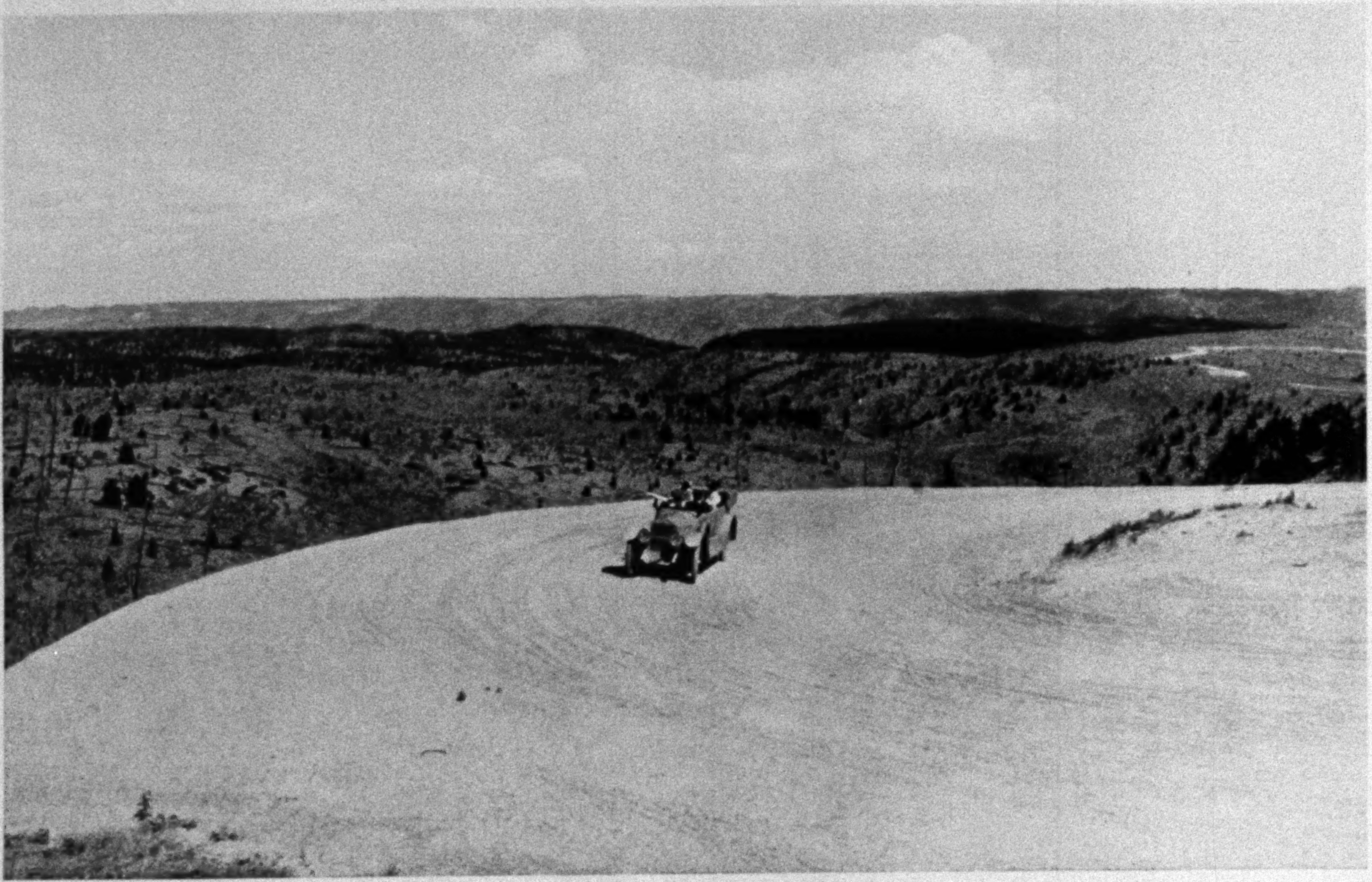
was a God-send to the country, for in the war with England in 1812 the United States secured from it the nitrous earth from which was derived the saltpetre used in the manufacture of the gunpowder for our armies.

Nowhere else can one travel so far in Plutonian regions of perpetual night, where petrified efflorescence is a substitute for vegetation, as in this great cavern. Vastly larger than Luray, the Mammoth Cave possesses a rich variety of formations. Many of these are huge in their proportions and remarkable in the delicacy of their structure.

Strange species of creatures are to be found there. One of these is a blind and wingless grasshopper, with extremely long antennæ; another is a blind and colorless crayfish; and a third, a blind fish which grows to the length of about six inches, and possesses the additional curiosity of being viviparous, producing its young in a living state instead of by eggs. Occasionally there are fish caught in the running streams of the cave which are identical with species common in Green River, indicating a subterranean connection between that river and the streams of the cave.

THE MOST IMPORTANT RIVER IN THE WORLD

The imperial Mississippi Valley may well claim the attention of those who



PIKES PEAK AUTO HIGHWAY, SHOWING A HAIRPIN CURVE FIFTY FEET WIDE

Few States have done as much as Colorado to make their scenery accessible to the tourist. The building of the splendid automobile highway to the top of Pikes Peak exemplifies what a progressive spirit the Centennial State has shown, both in providing visitors with facilities for seeing her places of interest and in welcoming them to her borders.

ON THE ROAD TO THE SUMMIT OF PIKES PEAK

The automobile in the picture is 13,000 feet above sea-level. On the top of the peak there are long-distance telephones, a parking space for three hundred automobiles, and a lake.

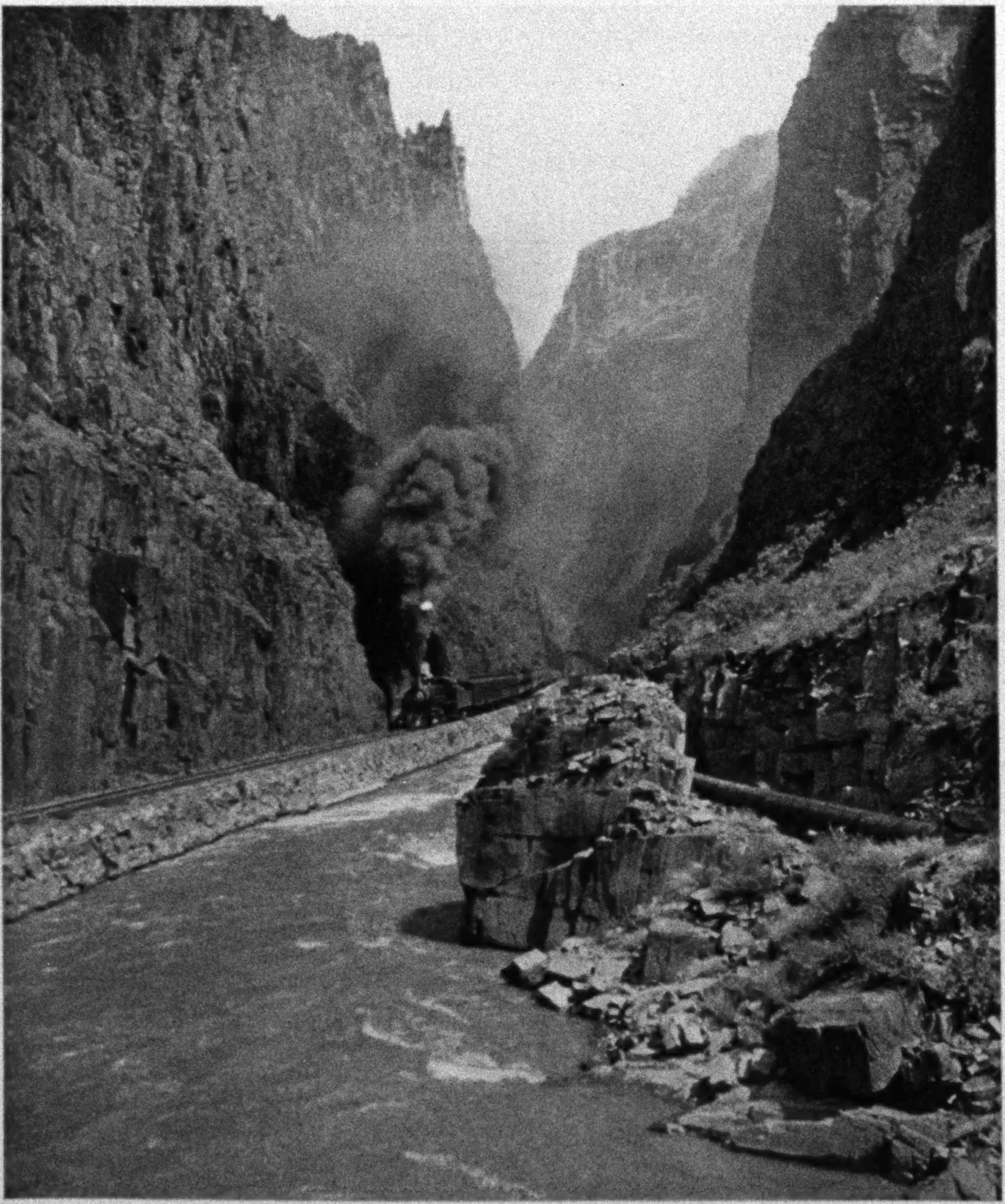
would know and appreciate the bigness and the diversity of industry and power of our country.

Our books tell us that 22 of our States and 40 per cent of the total area of our country are comprised within the Mississippi Valley; that nowhere else on the globe is there as large a region of equal fertility; that it grows the bulk of the nation's food and produces nearly two-thirds of our manufactures, and that, politically and commercially, it is more important than any other valley in the world.

But how tame the written statement is compared to the actual sight of oceans of green, growing corn; of waving wheat, oats, rye, and barley extending for hundreds of miles; of the huge plows, reapers, and threshing machines drawn by 16 horses or propelled by engines as big as the locomotive of an express train.

Or, if you are more interested in seeing things fashioned by the brain of man, tarry at Gary, Dayton, Cleveland, Detroit, Chicago, Milwaukee, etc., each the birthplace and home of enterprises peculiarly American and giving employment to tens of thousands. There you will stand in awe at sights a thousand times more astounding and stimulating than many of the feudal castles and tortuous streets of Baedeker's specialties.

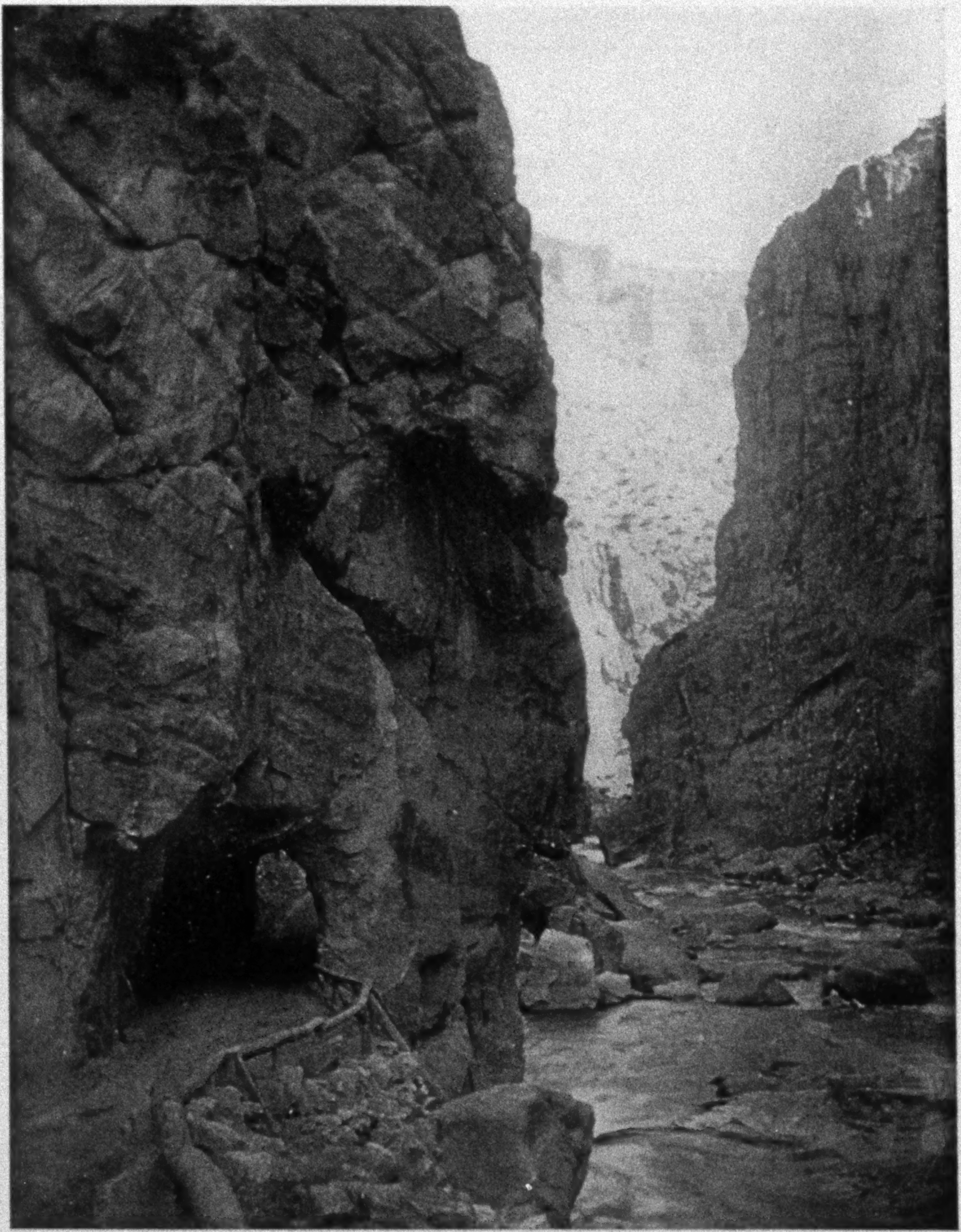
The fortunate individual who can follow our majestic Father of Waters from the upper reaches of its principal tributary, the Missouri, down the longest river course in the world to the Gulf of Mexico will have an experience that cannot be duplicated. As he successively watches



Photograph by George L. Beam

THE ROYAL GORGE, GRAND CANYON OF THE ARKANSAS: COLORADO

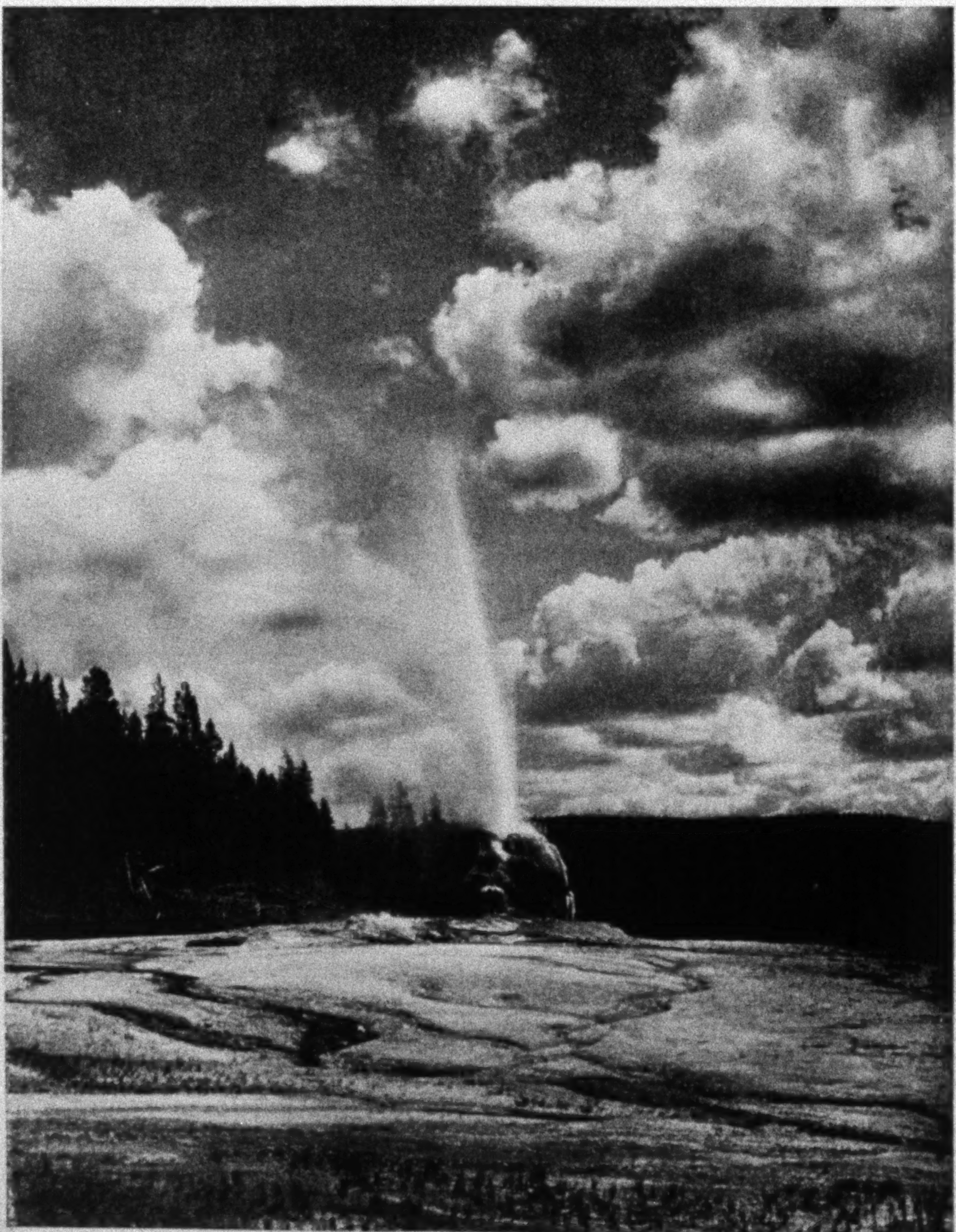
This gorge is the deepest chasm in the world through which a railroad passes. At one point it is so narrow that the railroad, unable to find a road-bed, passes over an iron bridge 200 feet long, suspended from girders mortised into the granite walls of the gorge, which is here half a mile deep.



Photograph by Hiscock

VIEW IN SHOSHONE CANYON: WYOMING

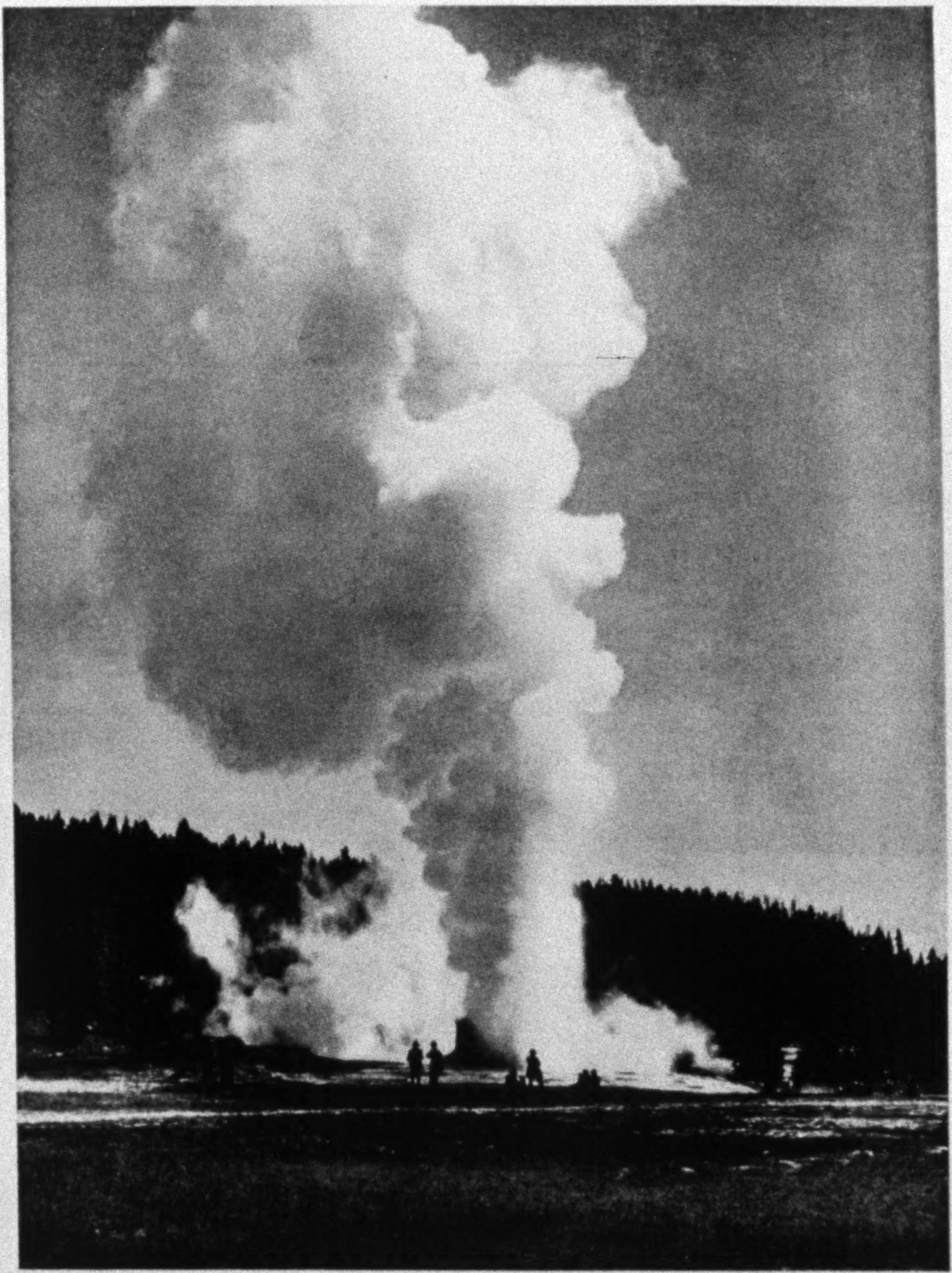
The automobile road from Cody, Wyoming, to the Yellowstone Park, which the United States Government has constructed, passes through the Shoshone Canyon. Five tunnels had to be blasted for its passage. Here the Government has built the second highest dam in the world. The lake it forms has a shoreline 42 miles long and furnishes water for the irrigation of more than 40,000 acres of land.



Photograph by F. J. Haynes

LONE STAR GEYSER: YELLOWSTONE NATIONAL PARK

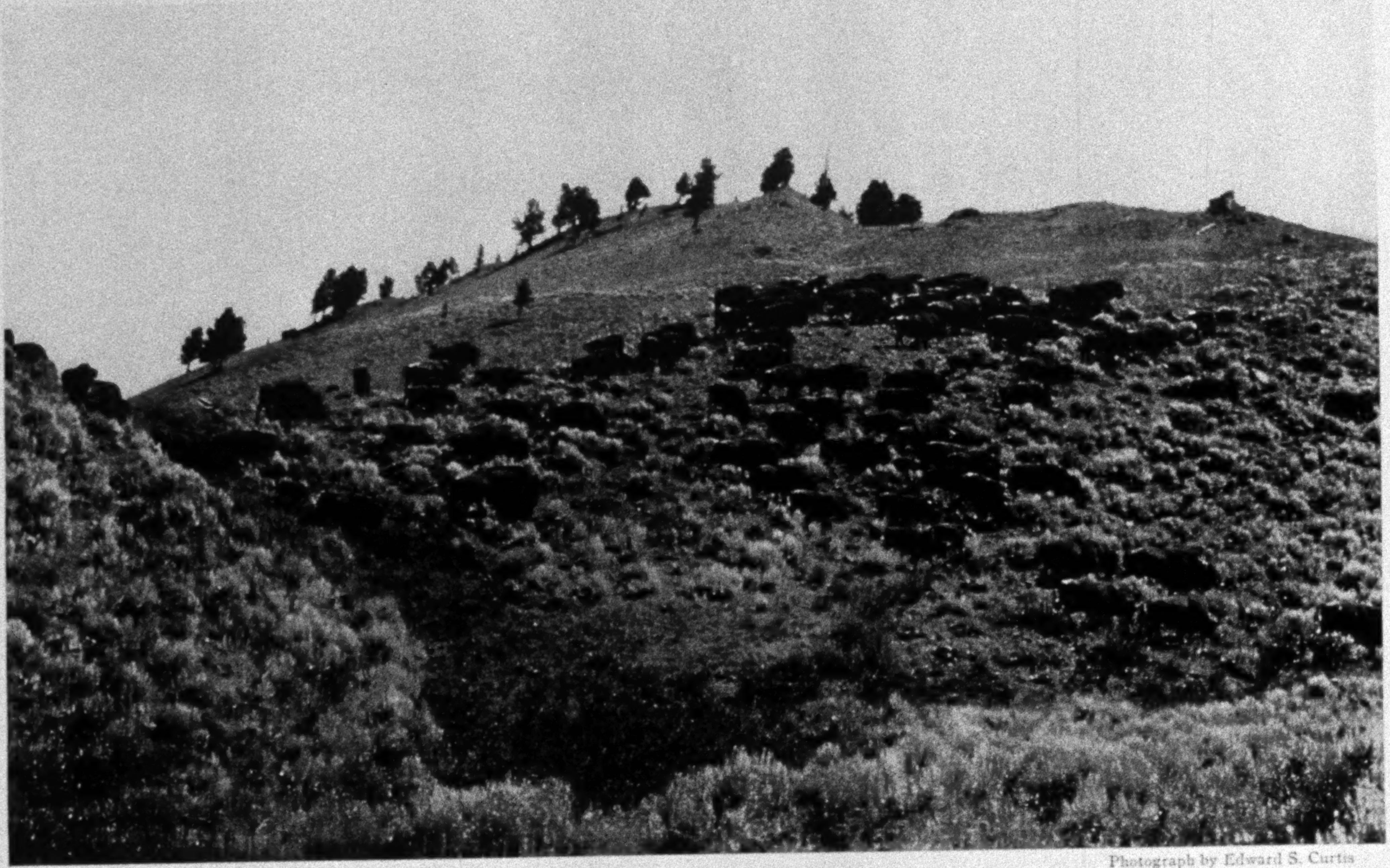
There are more geysers in Yellowstone National Park than in all of the remainder of the world. Stupendous as are the spectacles of these giant natural fountains in eruption, they are but feeble reminders of the titanic times whose records are written all over the face of the park.



Photograph by F. J. Haynes

THE GIANT GEYSER OF THE YELLOWSTONE NATIONAL PARK

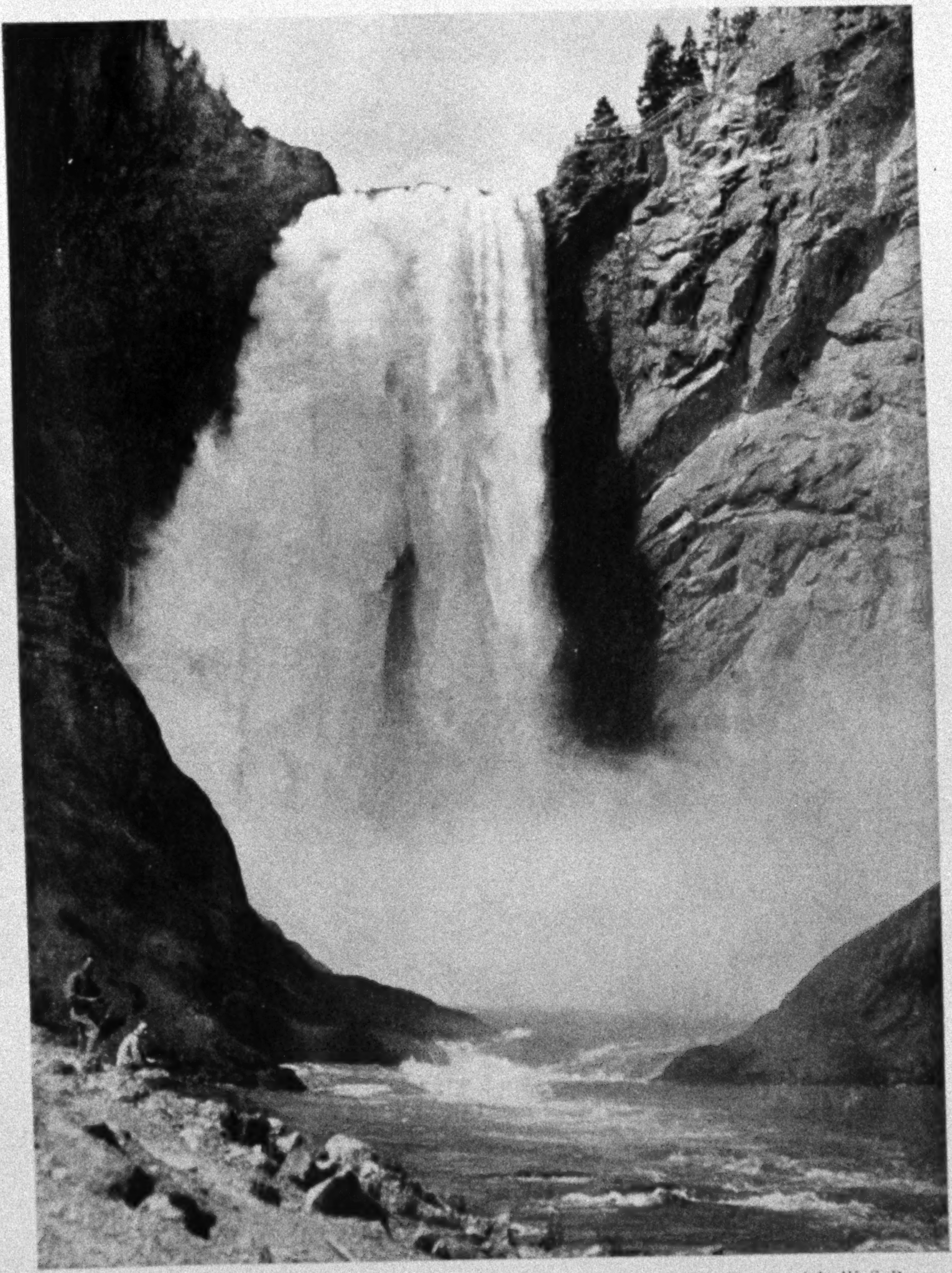
The Giant Geyser, with its tremendous outpouring of water and steam shooting 200 feet into the air and lasting for a full hour, is one of dozens of geysers found in the Yellowstone. They have all been named, and expressively so: the Black Growler, always fretting and fuming, but never doing much else; the Constant, on the job every half minute, with a ten-second eruption; the Minute Man, with a one-minute eruption and an irregular, short interval; the Beehive, shooting up out of a hivelike sinter cone; the Castle, with its fairy house; the Comet, the Daisy, the Economic, the Fan, and the Lion, each filling well the plans and specifications of its name; and Old Faithful, the originator of the "every hour on the hour" schedule.



Photograph by Edward S. Curtis

A HERD OF BISON IN THE YELLOWSTONE NATIONAL PARK

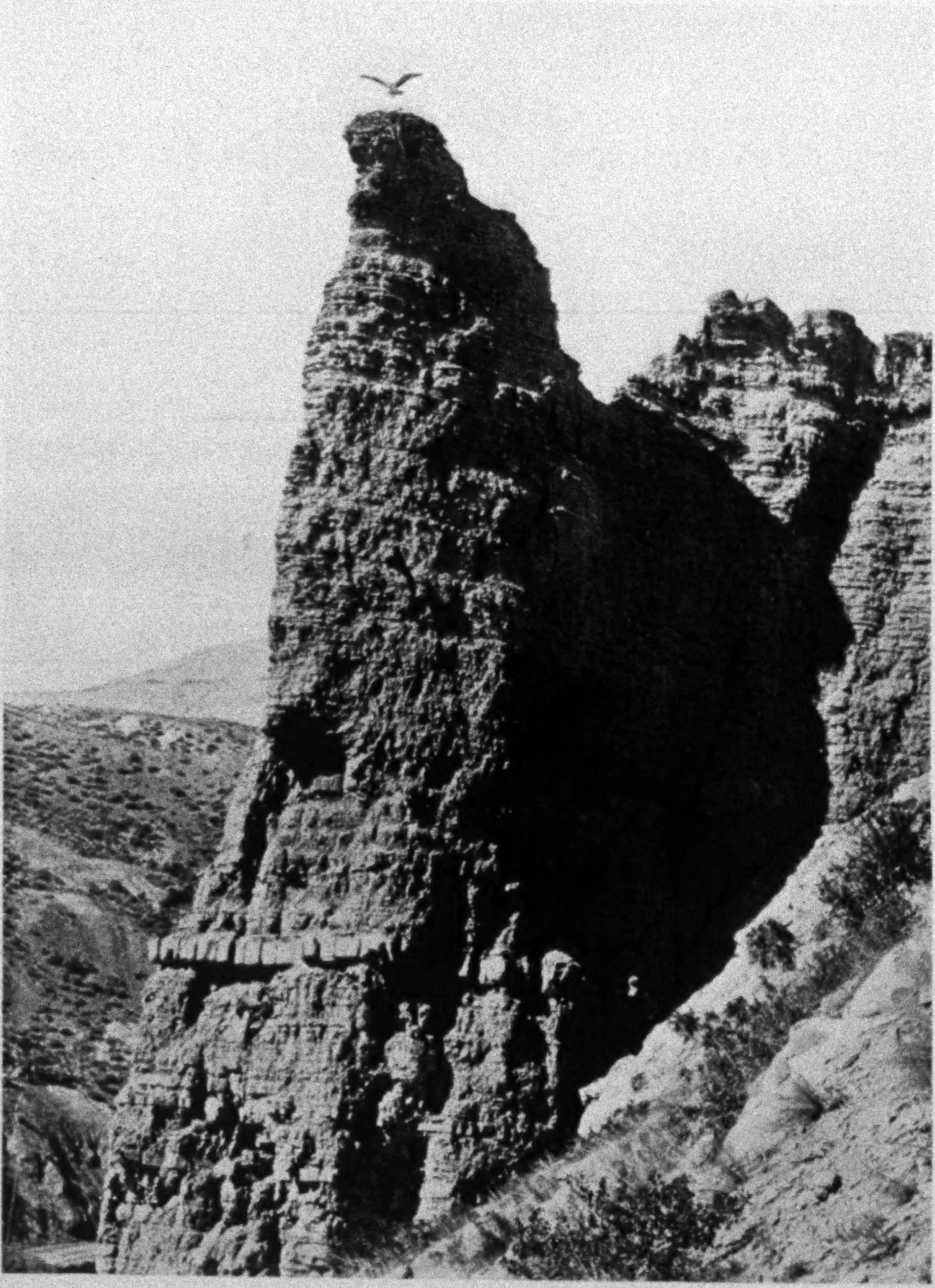
Yellowstone National Park is destined to be the principal game preserve in America. It contains an increasing herd of wild bison, fifteen thousand elk, several thousand moose, and innumerable deer. It is not an exceptional sight to see a park attendant feeding lump sugar to little bear cubs, while the mother bear plays the rôle of interested spectator in the offing. More than one hundred and fifty species of wild birds lead an undisturbed existence in the park.



Photograph by W. S. Berry

YELLOWSTONE FALLS: YELLOWSTONE NATIONAL PARK

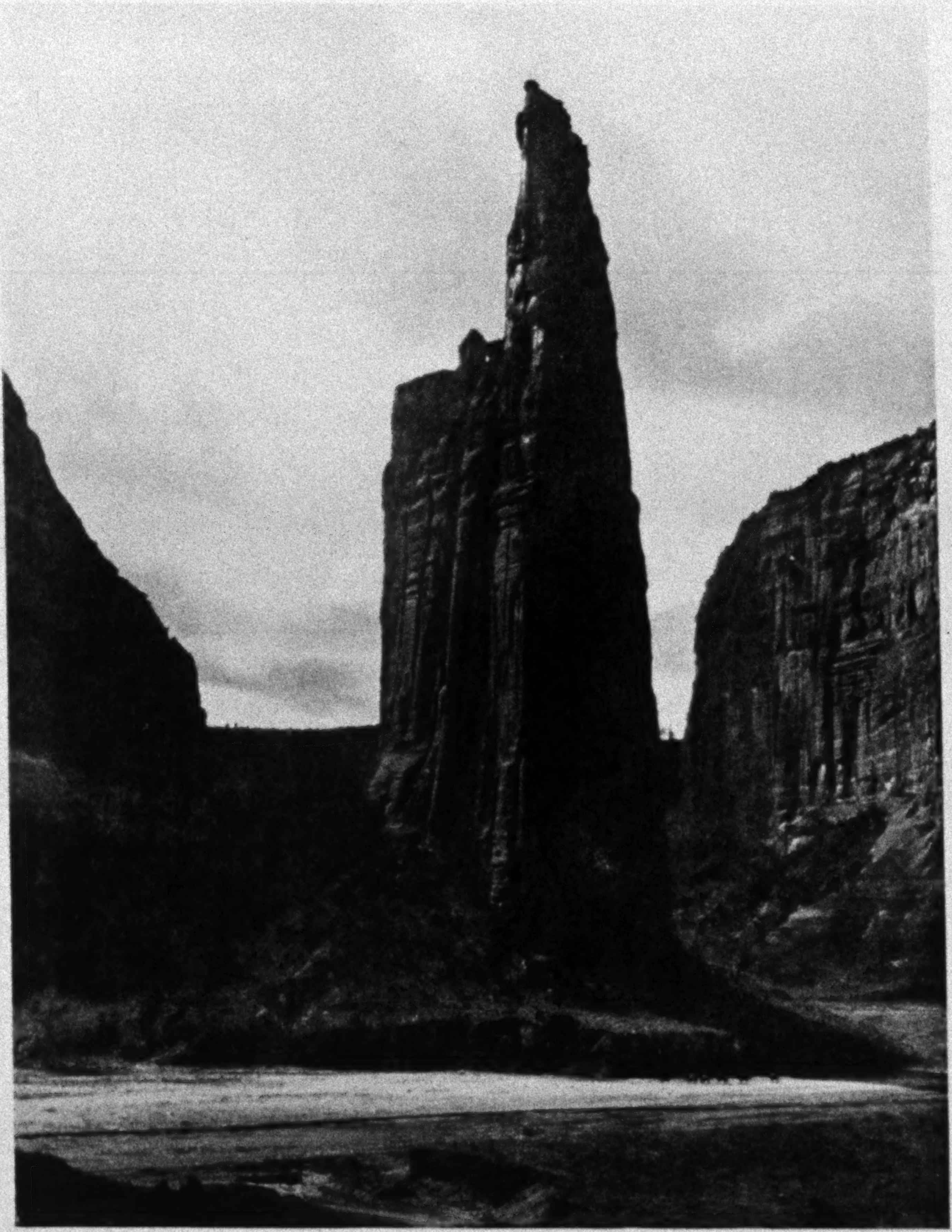
Yellowstone Canyon has been called the cameo of canyons. Burton Holmes has described it as "a mine of precious stones, uncovered to amaze and dazzle the sun itself." Adown its rocky bottom flows the Yellowstone River, and, where it is grandest and most beautiful, the river takes a leap twice as high as Niagara, making a marvelous veil of seething, frenzy-lashed, white water—a spectacle which, with its setting and majestic roar, is one of awe-inspiring majesty.



Photograph by F. J. Haynes

EAGLE-NEST ROCK: YELLOWSTONE NATIONAL PARK

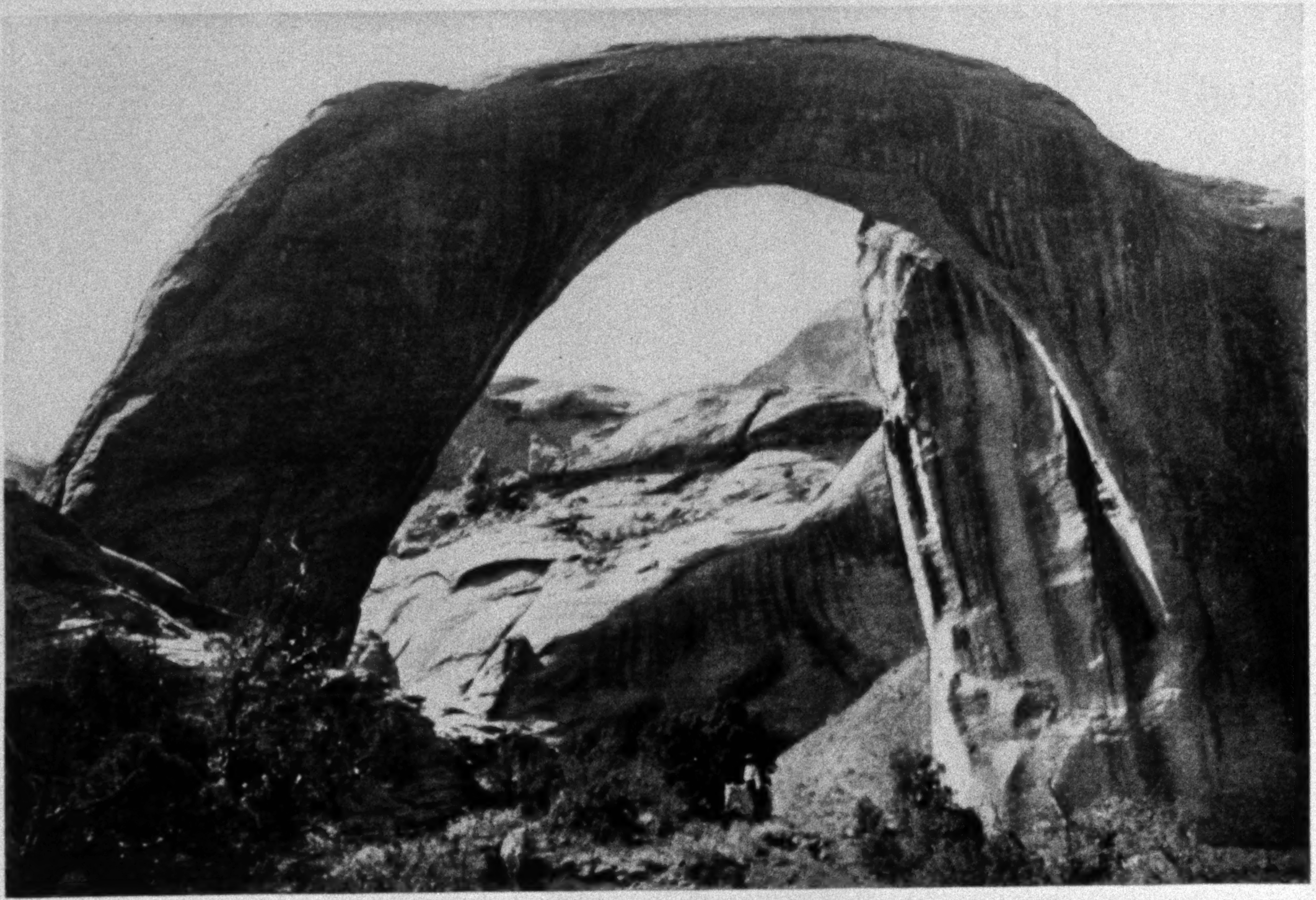
It seems as if Nature decided to establish in the region which we call the Yellowstone National Park a museum where, without traveling far, mankind could study all of her processes and see exhibits portraying all of the activities of the millions of years of earth-making.



Photograph by Roland W. Reed

THE OBELISK: CAÑON DE CHELLY, ARIZONA

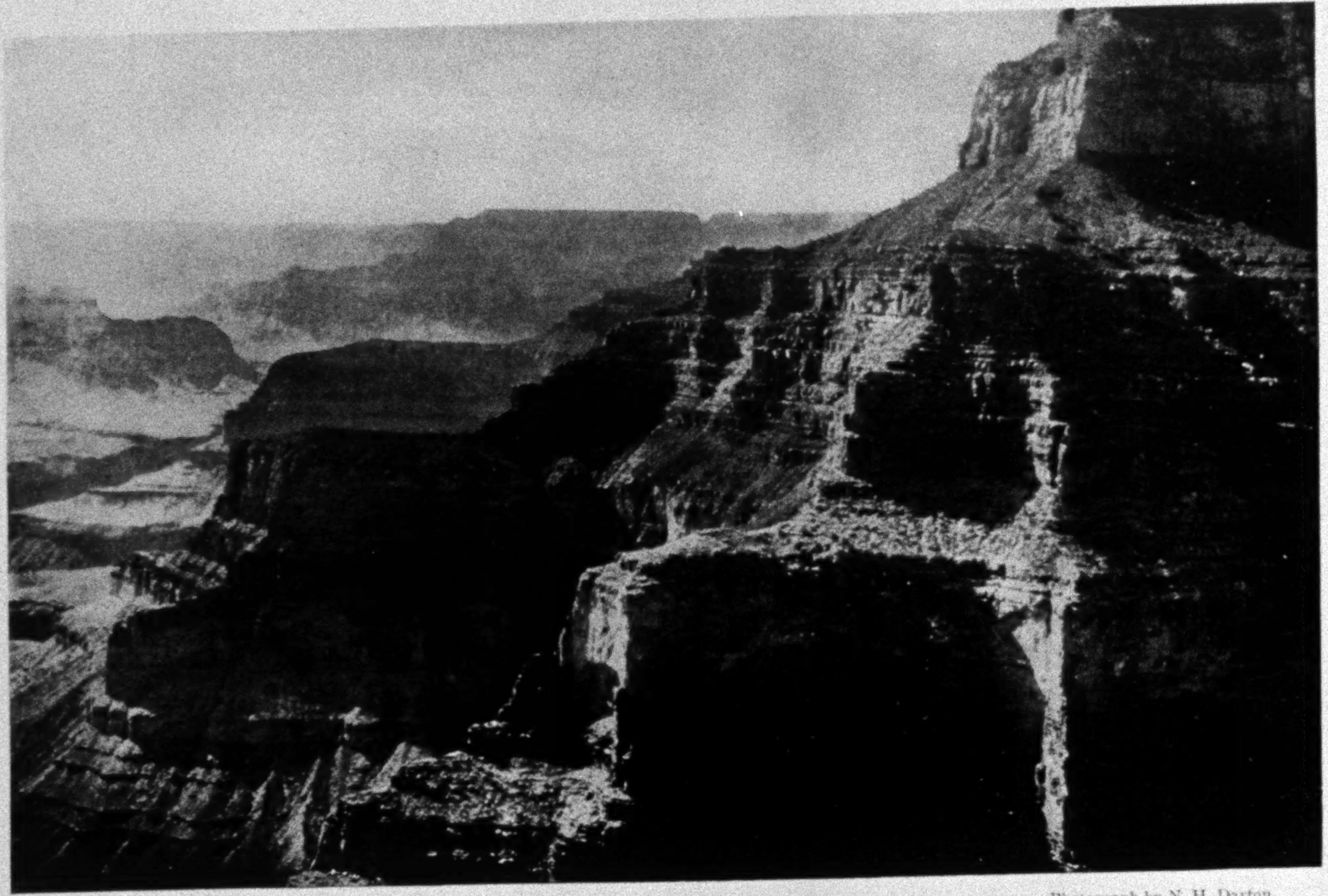
The tiny men on horseback at the foot of this towering shaft of stone tell a striking story of its size. It is but one of a thousand of these stately spires and nature-built obelisks that rise out of the earth in this region of scenic surprises.



Photograph by Kolb Bros.

THE RAINBOW NATURAL BRIDGE: UTAH

The biggest natural bridges in the world are to be found in the United States. The largest of these, the Rainbow, 308 feet high, would span the dome of the United States Capitol, with room to spare, and is nearly as high as the Flatiron Building in New York. Its span is six times as great as that of the Natural Bridge of Virginia. Utah alone has three natural bridges that are higher and of greater span than any other natural bridge in the world.



Photograph by N. H. Darton

A VIEW OF ONE OF THE SIDE WALLS OF THE GRAND CANYON OF THE COLORADO

"Looking down more than half a mile into this 15 by 218 mile paint-pot, I continually ask, Is there any other fifty miles of Mother Earth that I have known as fearful, as full of glory, as full of God?"—Joaquin Miller. "A pageant of ghastly desolation and yet of frightful vitality, such as neither Dante nor Milton in their most sublime conceptions ever approached."—William Winter. Search the entire globe and you will find nothing outside the United States comparable to the Grand Canyon

250 other rivers, many of them turbulent giants like the Ohio, the Arkansas, the Red, etc., add their brown floods to the broad torrent, he can easily comprehend the statement that the Mississippi River discharges into the sea one-half more water than do the Rhine, Loire, Po, Elbe, Vistula, Danube, Don, Dnieper, and Volga all together, and that it brings down to the Gulf of Mexico annually more material than has been taken out of the Panama Canal from the day that De Lesseps removed the first shovelful of earth.

On the lower reaches of the Mississippi he sees dikes thicker, higher, and longer than any Holland can show, parts of a levee system much more extensive than the famous reclamation works on the Zuyder Zee. The latter, however, are better known, being generations older and nearer to routes frequented by travelers and writers.

Here, also, he passes sugar-cane plantations, cotton fields, cypress forests, quaint old steamboats redolent with memories of the days of Huck Finn, picturesque negro populations—a weird contrast to the blazing furnaces of Pittsburgh, the white flour mills of Minneapolis and St. Paul, the noisy cattle yards of Kansas City and Omaha, the snow-capped mountains of Montana and Wyoming and Pikes Peak in Colorado, all tributary to the same river.

It is to be regretted that today there is very little traffic on the river compared to earlier days.

THE YELLOWSTONE PARK

Leaving the masterful Mississippi Valley and journeying westward, we soon enter the region of the national parks, of which there are eight of the first order—the Yellowstone National Park, principally in Wyoming; the Glacier National Park, in Montana; the Rocky Mountain and Mesa Verde National Parks, in Colorado; the Crater Lake National Park, in Oregon; the Mount Rainier National Park, in Washington, and the Yosemite and Sequoia National Parks, in California. To these must be added the Grand Canyon of the Colorado, in Arizona, the scenic masterpiece of the world, officially classed as a national monument until Congress makes it a park. Each park has its own individuality, and each in its specialty excels. Together they contain more features of conspicuous grandeur than are accessible in all the continents.

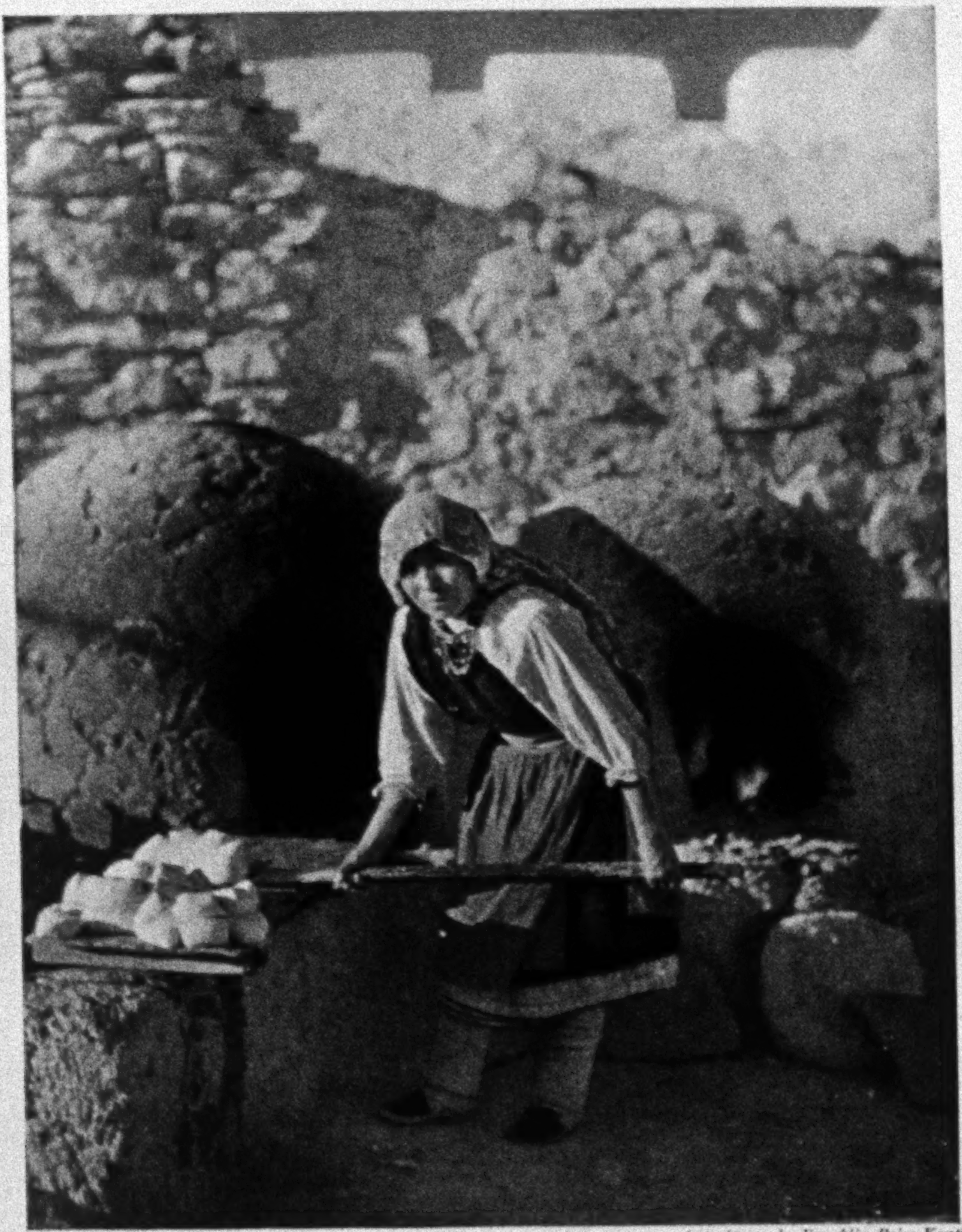
Foremost in interest in the Yellowstone are the geysers, of which "Old Faithful" ranks first, not because of size, for the Giant is a Goliath beside it; not because of beauty, for there are others more beautiful; but because of fidelity. It never disappoints. It is so regular that it could almost serve as the nation's standard timepiece. Every 70 minutes "Old Faithful" shoots its great column of water heavenward. At each eruption it sends up into the air a million and a half gallons of water (see pp. 370-371).

One writer has described the geyser basins "as laboratories and kitchens, in which, amid a thousand retorts and pots, we may see Nature at work as chemist or cook, cunningly compounding an infinite variety of mineral messes; cooking whole mountains; boiling and steaming flinty rocks to smooth paste and mush—yellow, brown, red, pink, lavender, gray, and creamy white—making the most beautiful mud in the world, and distilling the most ethereal essences.

"Many of these pots and caldrons have been boiling thousands of years. Pots of sulphurous mush, stringy and lumpy, and pots of broth as black as ink are tossed and stirred with constant care; and thin transparent essences, too pure and fine to be called water, are kept simmering gently in beautiful sinter cups and bowls that grow ever more beautiful the longer they are used.

"In some of the spring basins the waters, though still warm, are perfectly calm and shine blandly amid a sod of overleaning grass and flowers, as if they were thoroughly cooked at last and set aside to settle and cool. Others are wildly boiling over, as if running to waste, thousands of tons of the precious liquids being thrown into the air to fall in scalding floods on the clean coral floor of the establishment, keeping onlookers at a distance.

"Every flask, retort, hot spring, and geyser has something special in it, no two

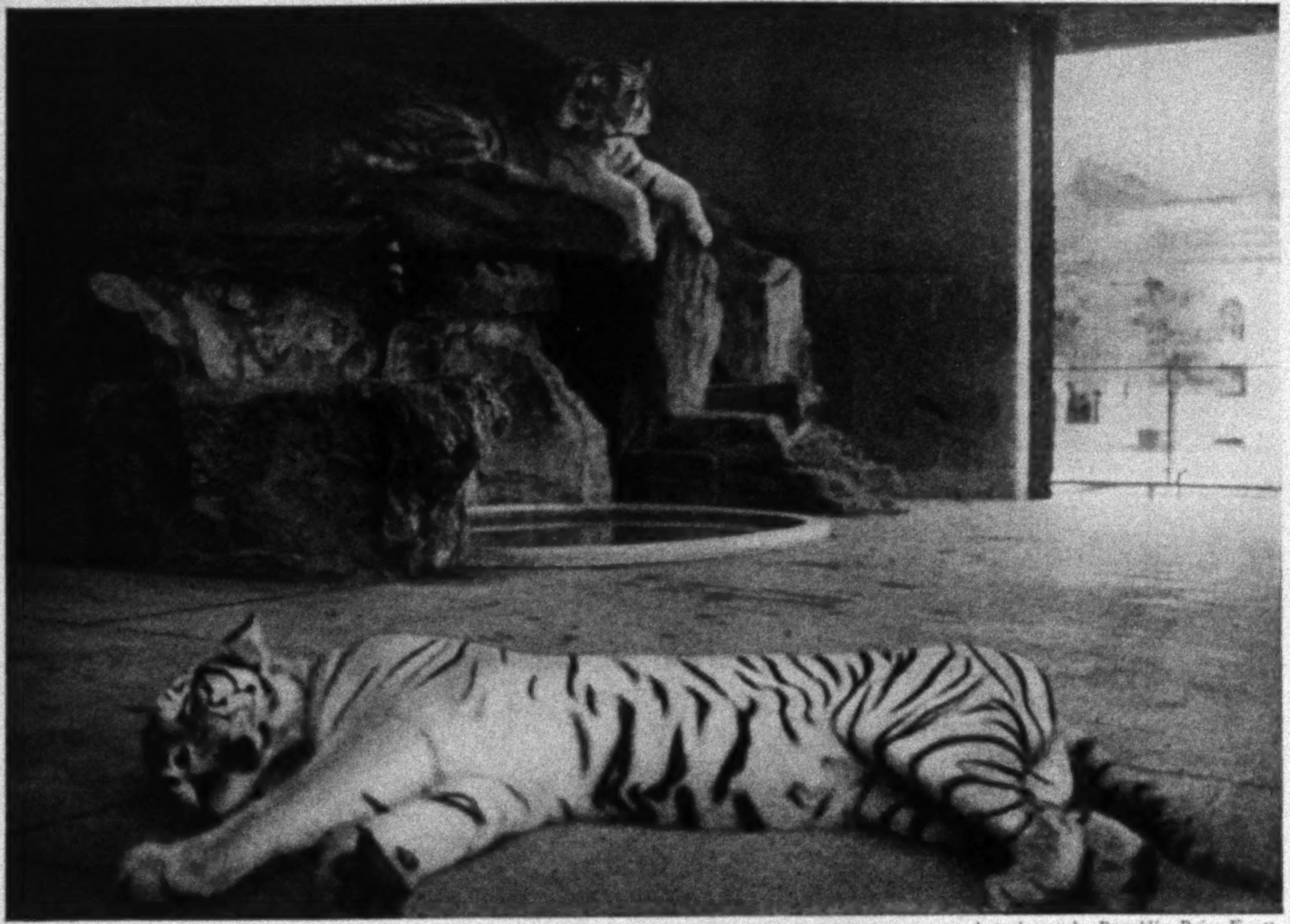


Autochrome by Franklin Price Knott

A PUEBLO WOMAN AT LAGUNA, NEW MEXICO

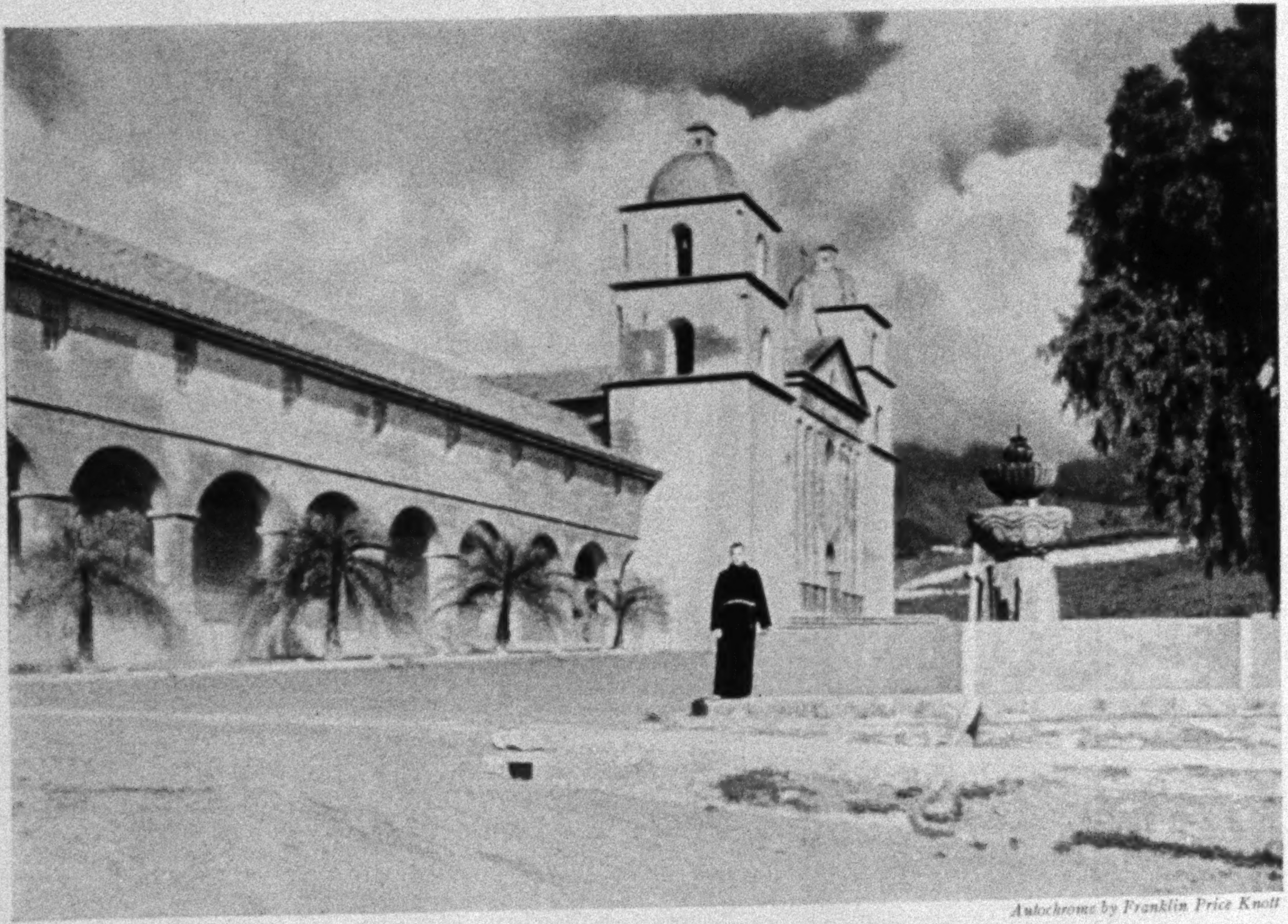
She is shovelling bread into an open-air oven, preparing for a corn dance celebration to take place the following day. The Navajo and Pueblo Indians for a hundred miles around Laguna were met on the way to take part in the dance, which is in reality a prayer for rain.

XUM



Autochrome by Franklin Price Knott

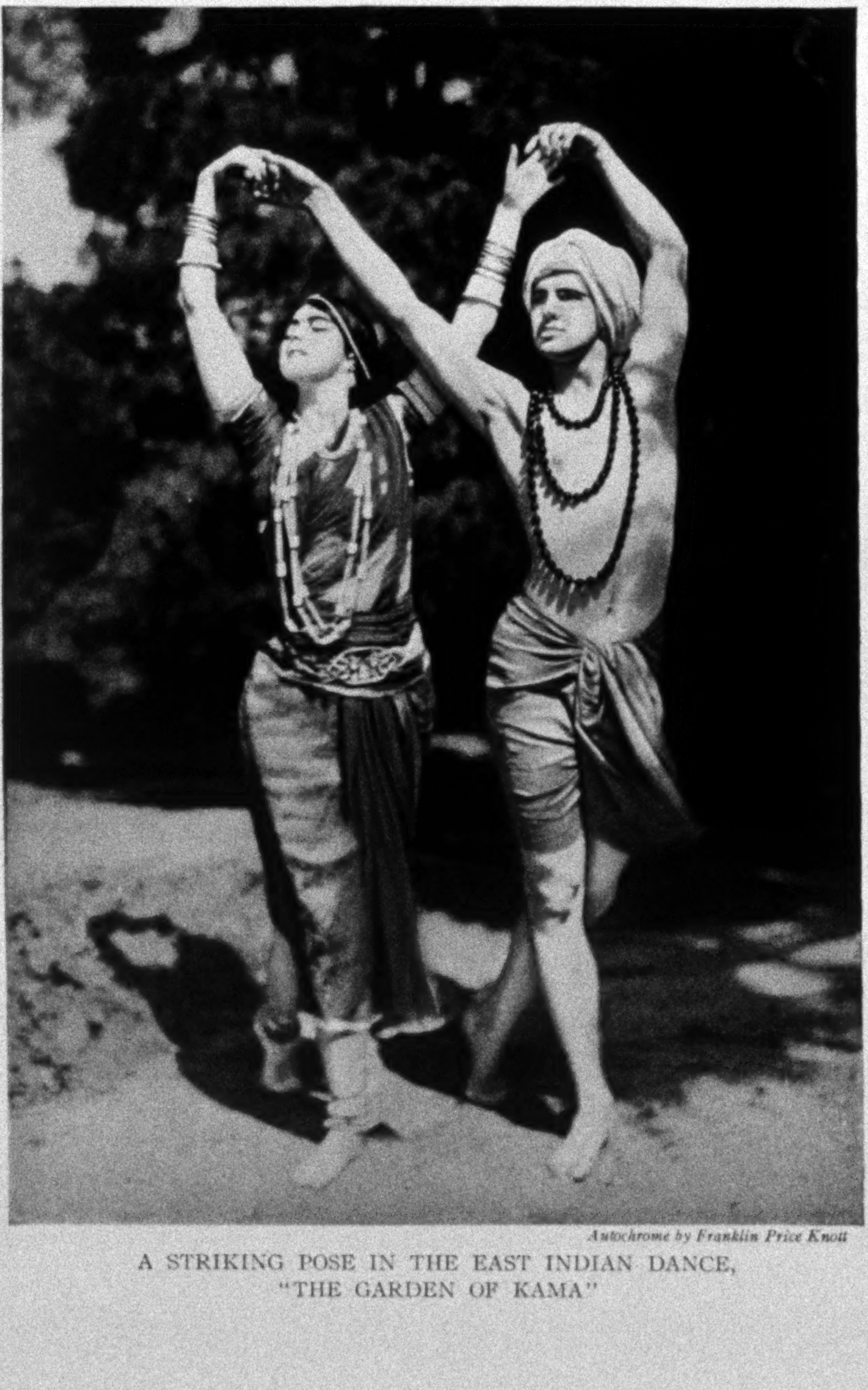
THE SLEEPING TIGER IN THE ZOOLOGICAL GARDENS OF NEW YORK CITY



Autochrome by Franklin Price Knott

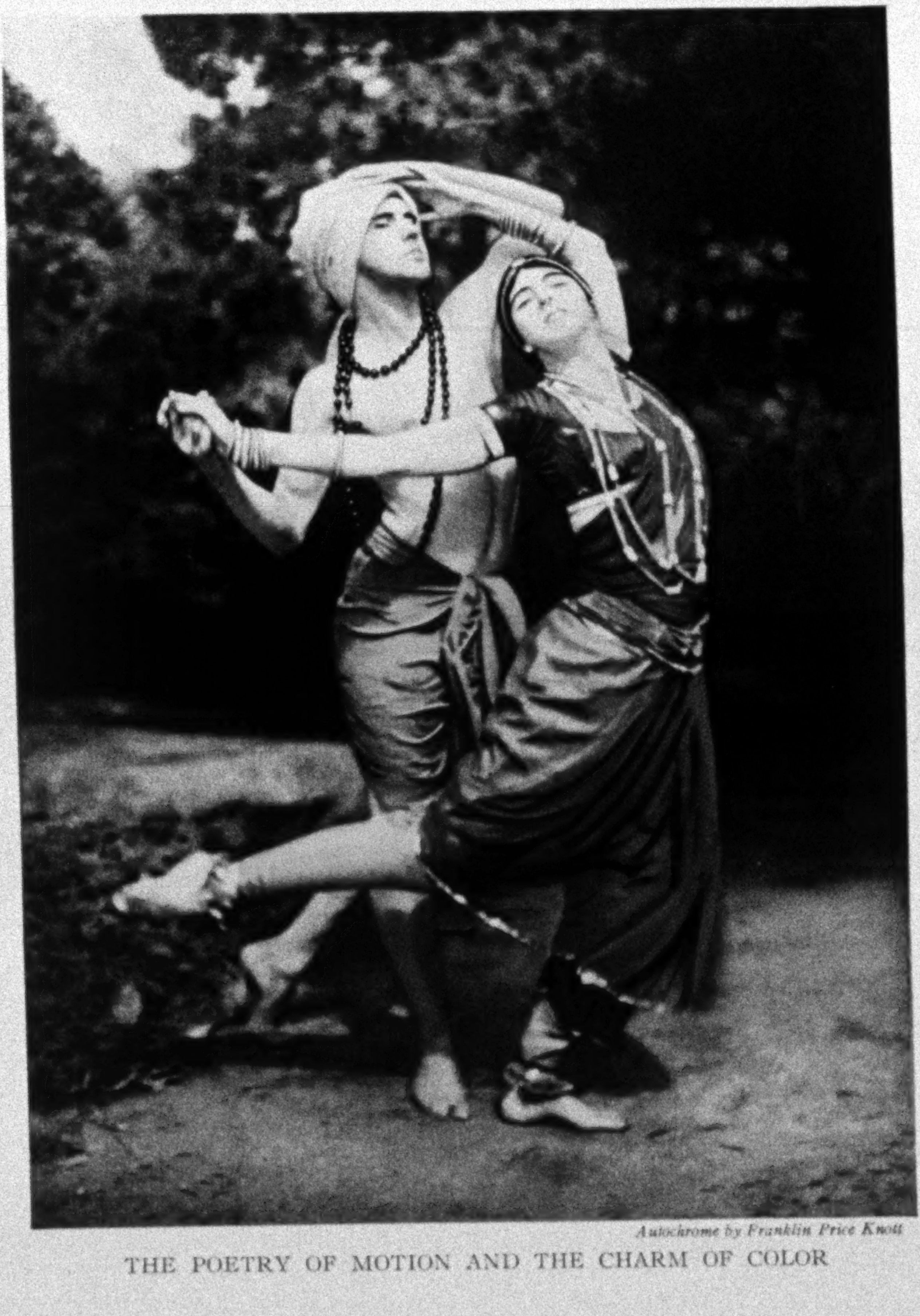
THE FAMOUS OLD MISSION OF SANTA BARBARA, CALIFORNIA

Although not a foot of soil is left to Spain in the New World, her blood, her architecture and her language remain in nearly all that vast region from Southern California to Patagonia.



Autochrome by Franklin Price Knott

A STRIKING POSE IN THE EAST INDIAN DANCE, "THE GARDEN OF KAMA"

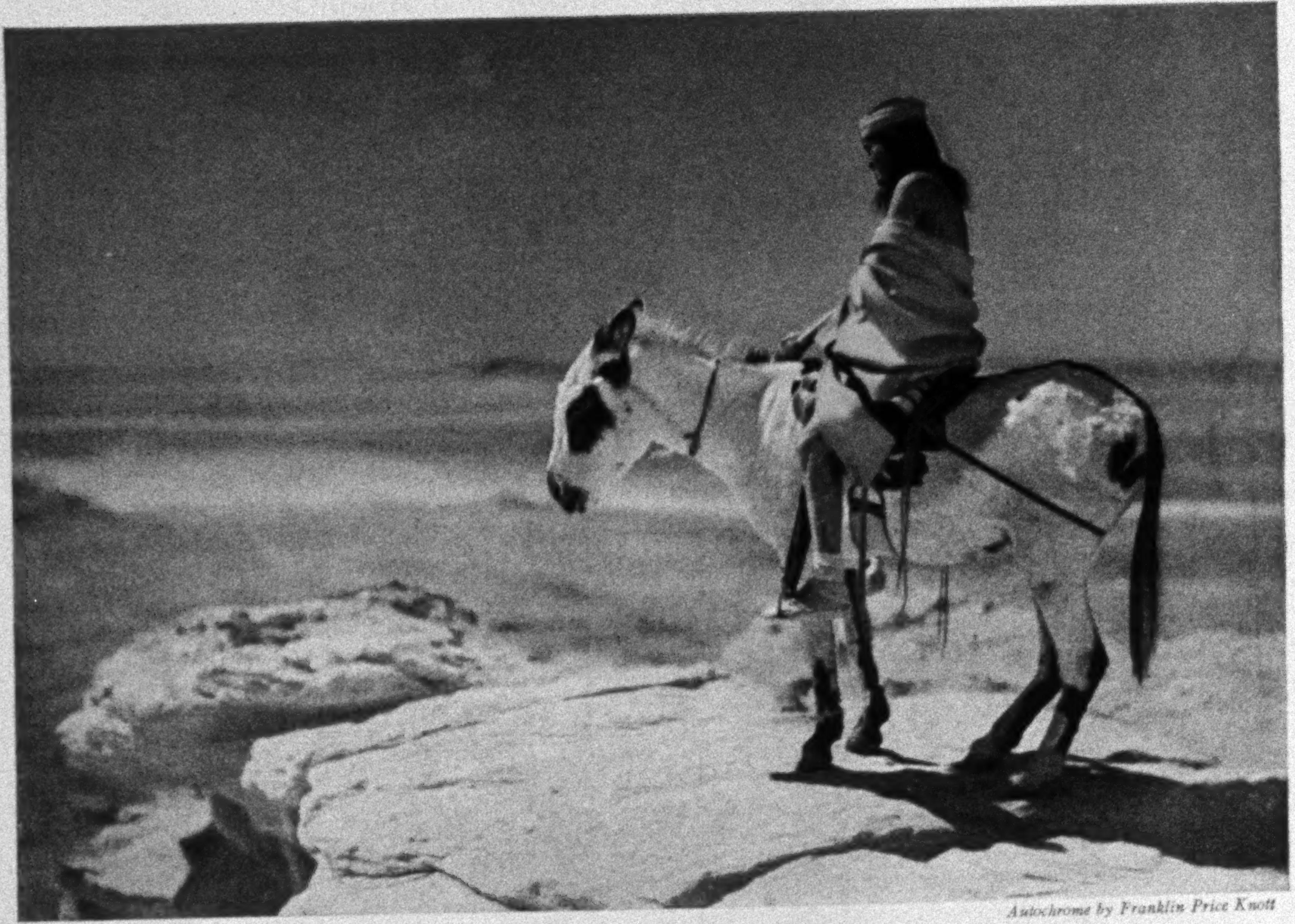


Autochrome by Franklin Price Knott

THE POETRY OF MOTION AND THE CHARM OF COLOR

Autochrome by Franklin Price Knott

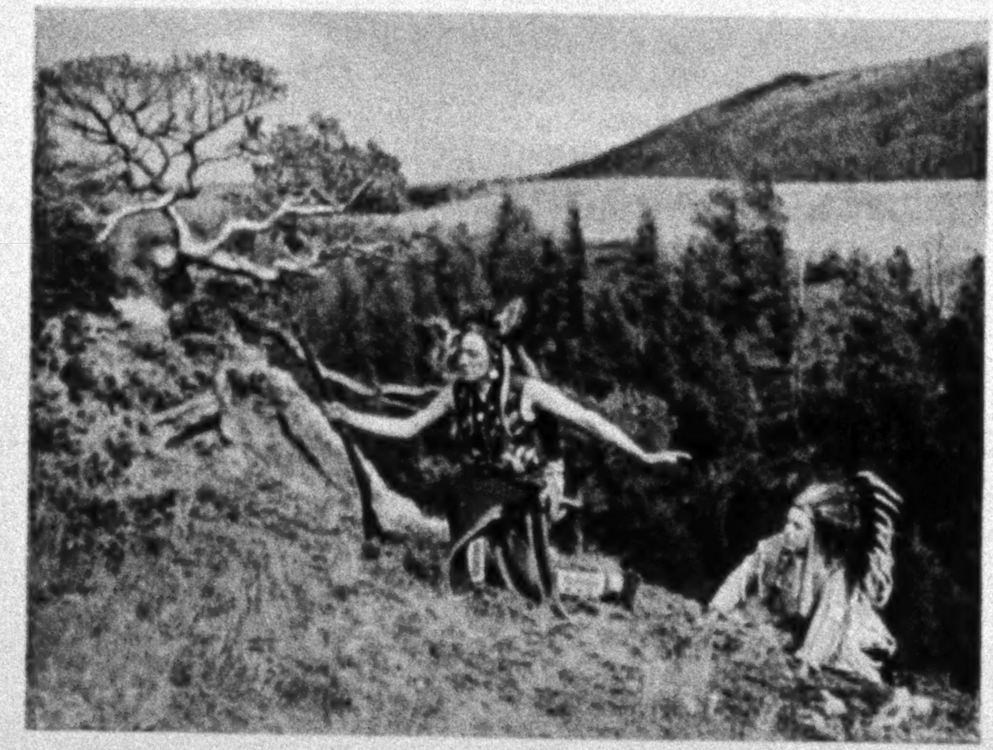
WHAT IS RARER THAN A FROSTY MORNING WITH ITS TANG OF COLD AND ITS RIOT OF COLOR: NEW ENGLAND



Autochrome by Franklin Price Knott

ANOTHER KIND OF PALE HORSE AND HIS RIDER

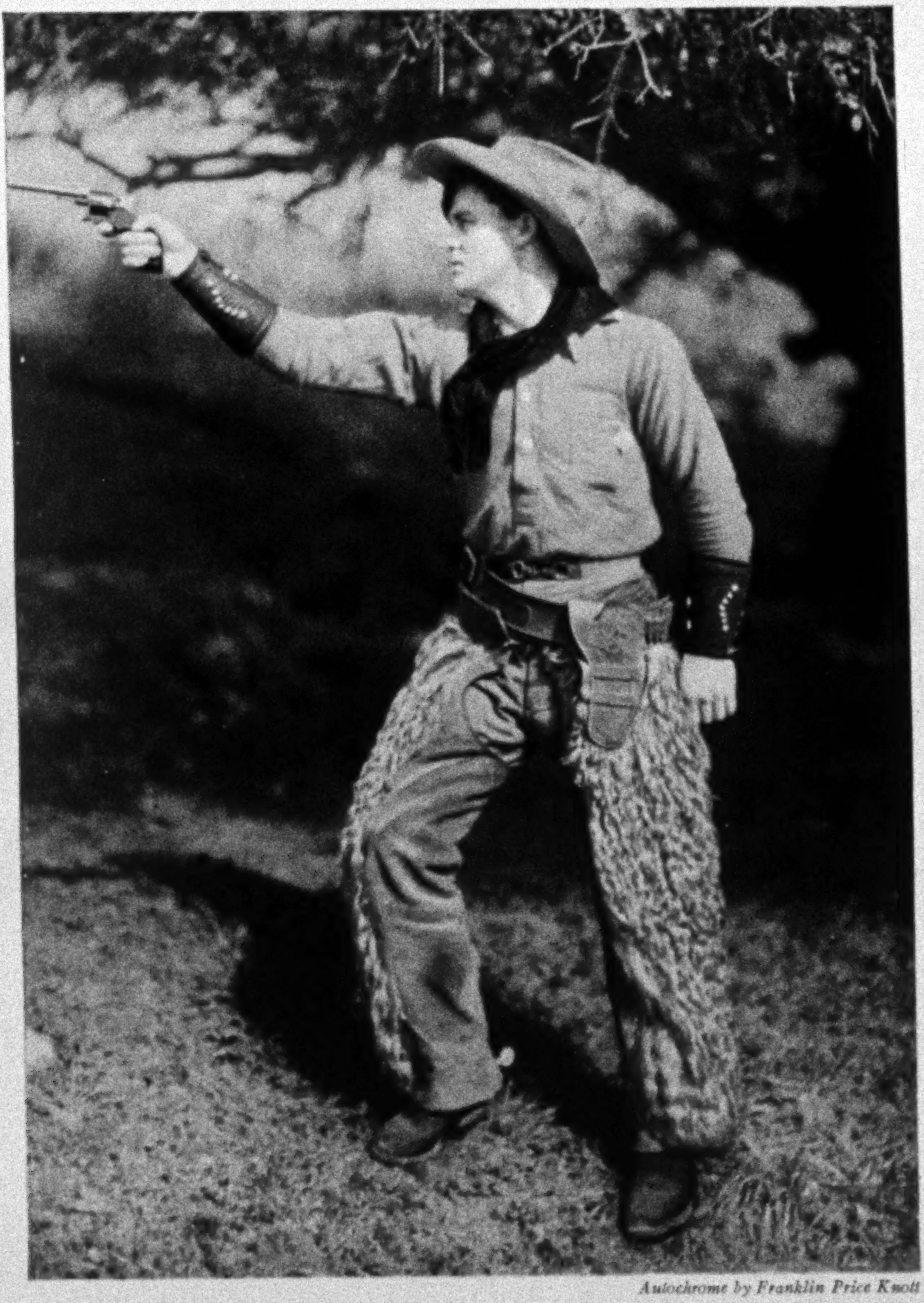
This picture of a Hopi Indian and his white burro was taken at the edge of the high mesa on which is the village of Walapai, Arizona.



SURPRISING THE ENEMY

Autochromes by Franklin Price Knott

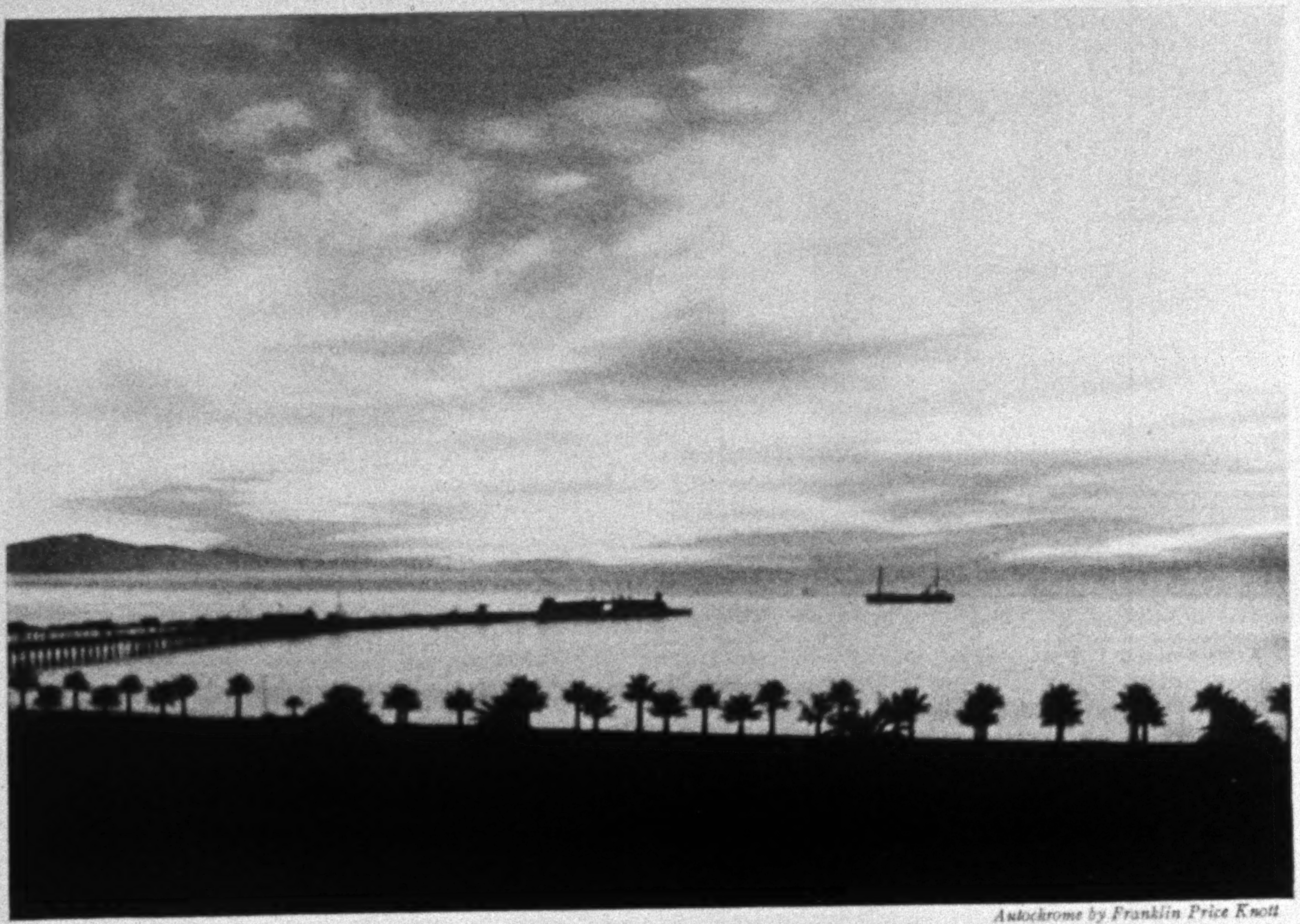
"WILD ROSE" AND HER PALE-FACE FRIEND,
GLACIER NATIONAL PARK



Autochrome by Franklin Price Knott

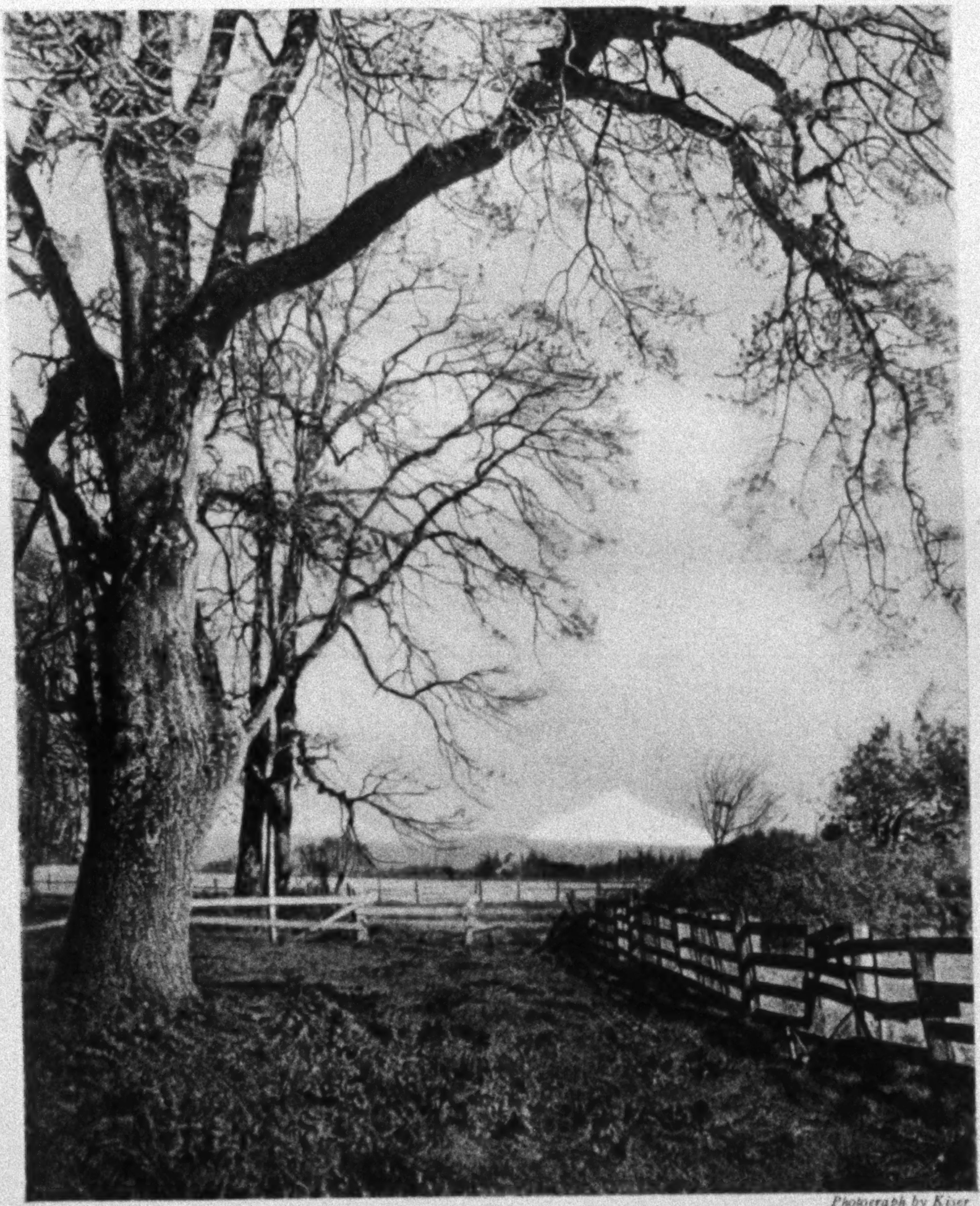
A FAST-DISAPPEARING TYPE

As the settler encroaches further and further upon the cattle country, the cowboy and the romance of his calling are rapidly approaching the point where they will exist only on the motion-picture screen and in the Wild West Show.



Autochrome by Franklin Price Knott

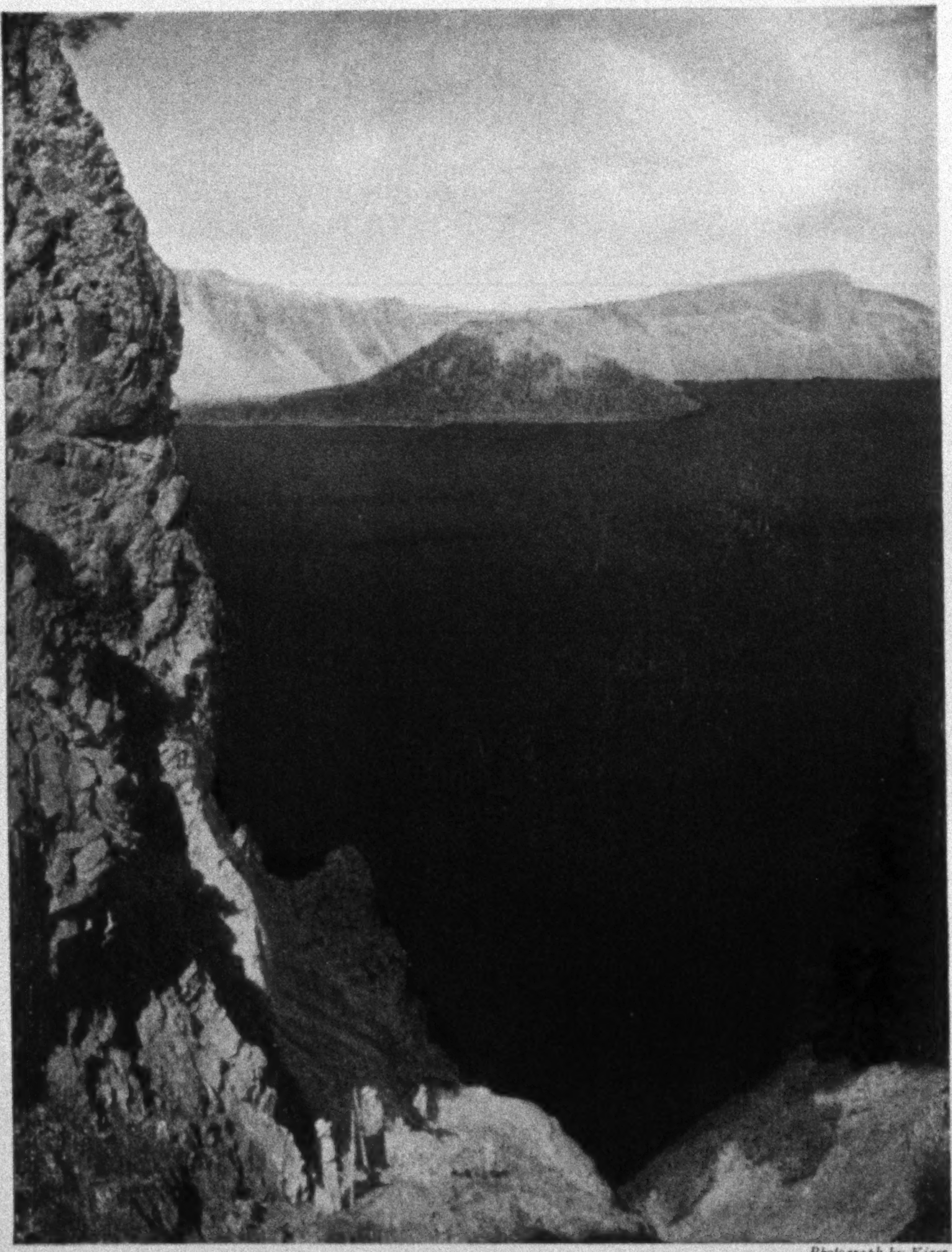
SUNRISE SETTING THE MORNING HEAVENS ON FIRE
A poem in colors on the California Coast.



Photograph by Kiser

MT. HOOD AS SEEN FROM NEAR PORTLAND, OREGON

Truly the great Far West is a land where every prospect pleases.



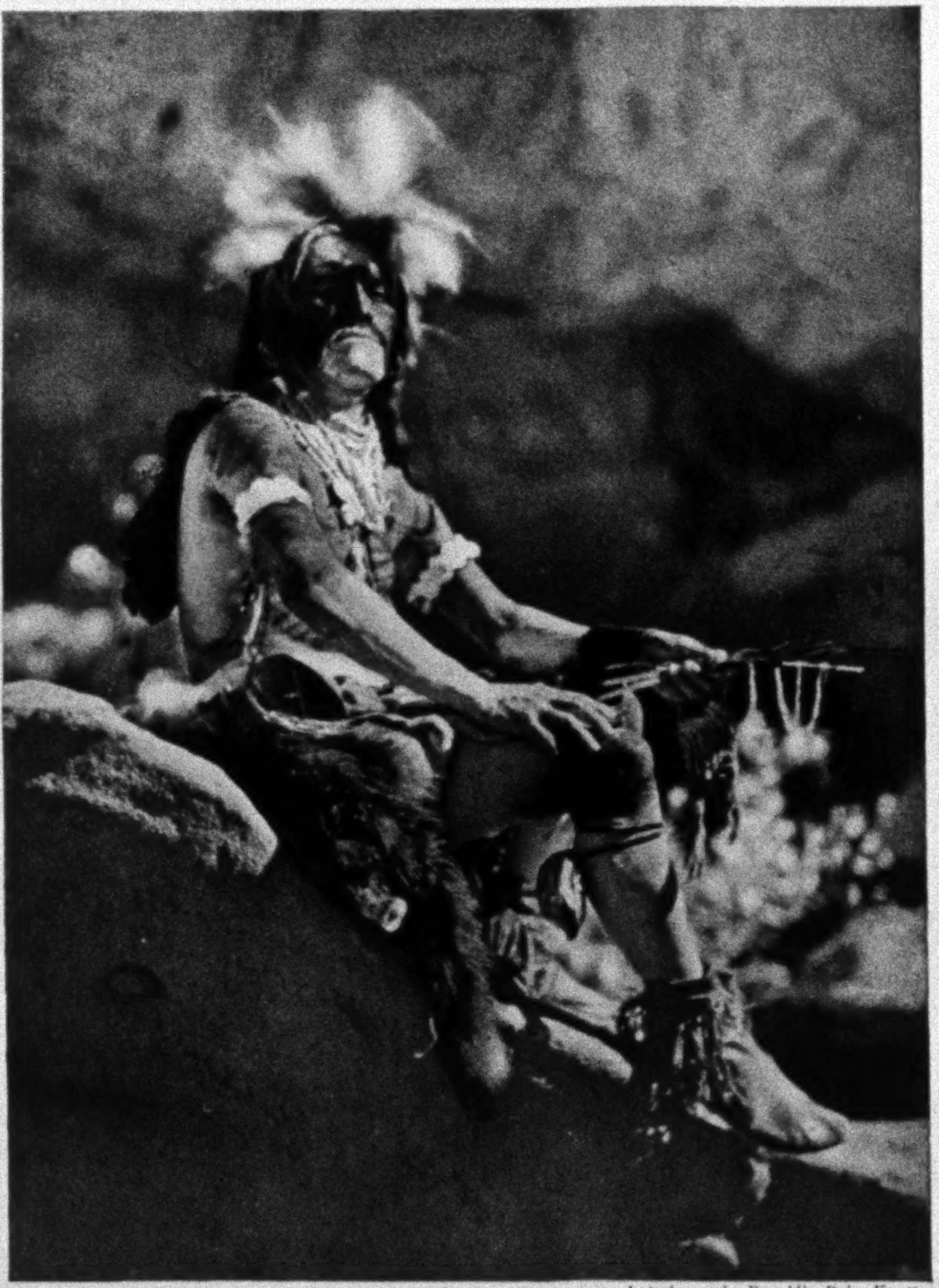
Photograph by Kiser

ON THE RIM TRAIL OF CRATER LAKE, OREGON

"The eye beholds twenty miles of unbroken cliffs ranging from five hundred to nearly two thousand feet in height, encircling a deep sheet of placid water in which the mirrored walls vie with the originals in brilliancy and greatly enhance the depth of the prospect. Although the blue of the lake is deeper than anyone who has not beheld it can imagine, it is yet so transparent that even on a hazy day a white dinner plate ten inches in diameter may be seen at a depth of nearly one hundred feet."

Photograph by Pillsbury

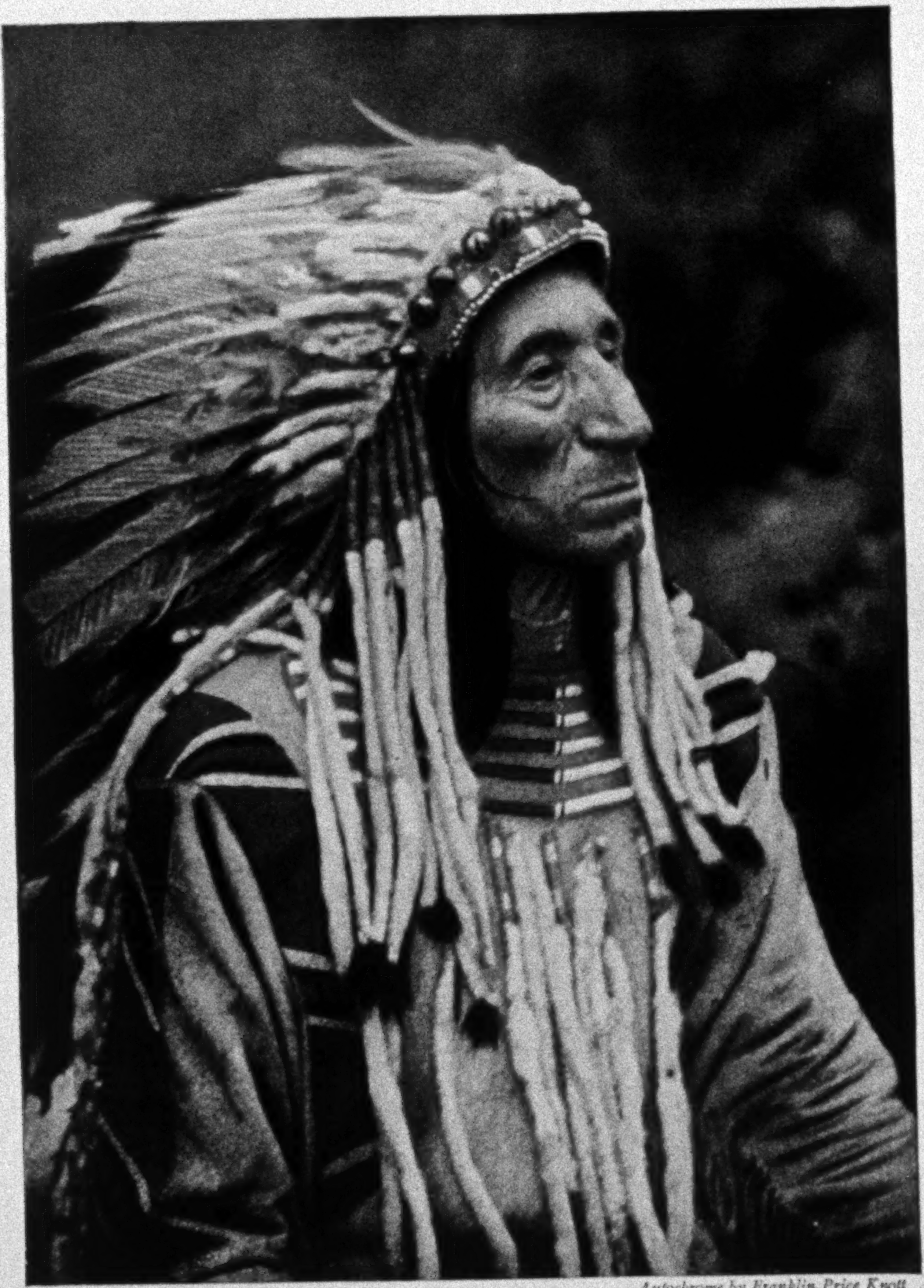
A MEADOW IN THE YOSEMITE VALLEY, CALIFORNIA



Autochrome by Franklin Price Knott

THE CHIEF PRIEST OF THE SNAKE CLAN: HOPI TRIBE

His face and body are smeared with black and white and yellow paint. His ornaments are many. A gray fox skin dangles from his back. On his legs are bound shells of the desert terrapin with points of antelope hoofs inside to serve as rattles. Eagle feathers are carried in one hand, with which the snakes are stroked and pacified. A prayer stick is also in his hand. Some claim that the priests drink an herb tea before the dance which renders them immune to the poison, but all agree that the snakes' fangs are not extracted.



Autochrome by Franklin Price Knott

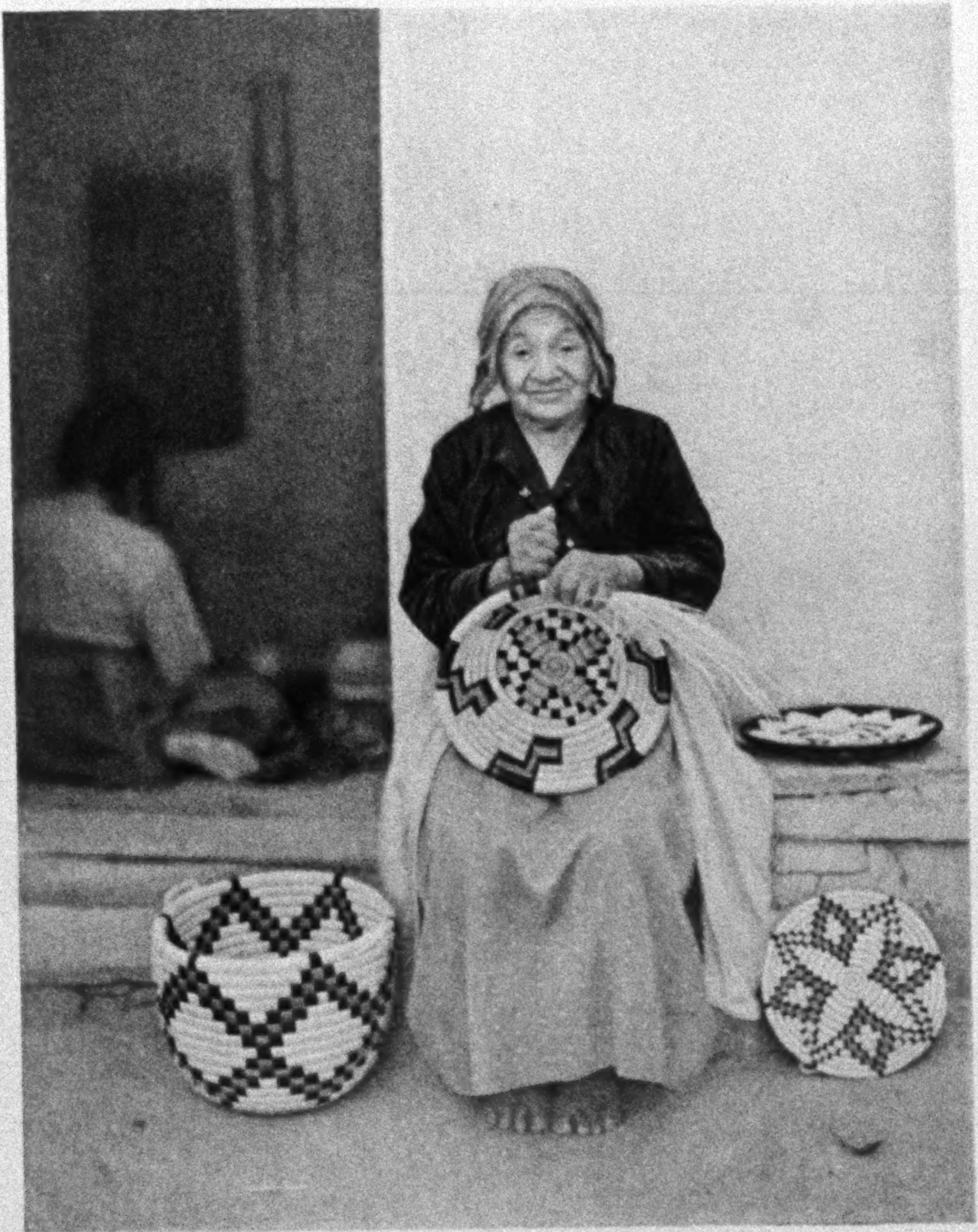
"LA MOUSE," A VENERABLE FLATHEAD CHIEF, OVER EIGHTY YEARS OF AGE: GLACIER NATIONAL PARK

His name may suggest the most timid of animals, but his courage is that of the king of beasts. The Northern Indians are very fond of ermine, and cut the skin in strips and hang them on every available part of their costume.

Photograph by Garrison

A FIELD OF POPPIES

No other region in the world possesses greater richness of color or such a vast number of species of wild flowers as the United States. All of the art of Persia has never produced such magnificent carpets as one may see spread over ten thousand landscapes within our boundaries.



Autochrome by Franklin Price Knott

THE HOPI BASKET-MAKER

The untutored art of the American Indian, with its lively appreciation of color values and combinations, and of geometric designs, has been praised by the art critics of every land.

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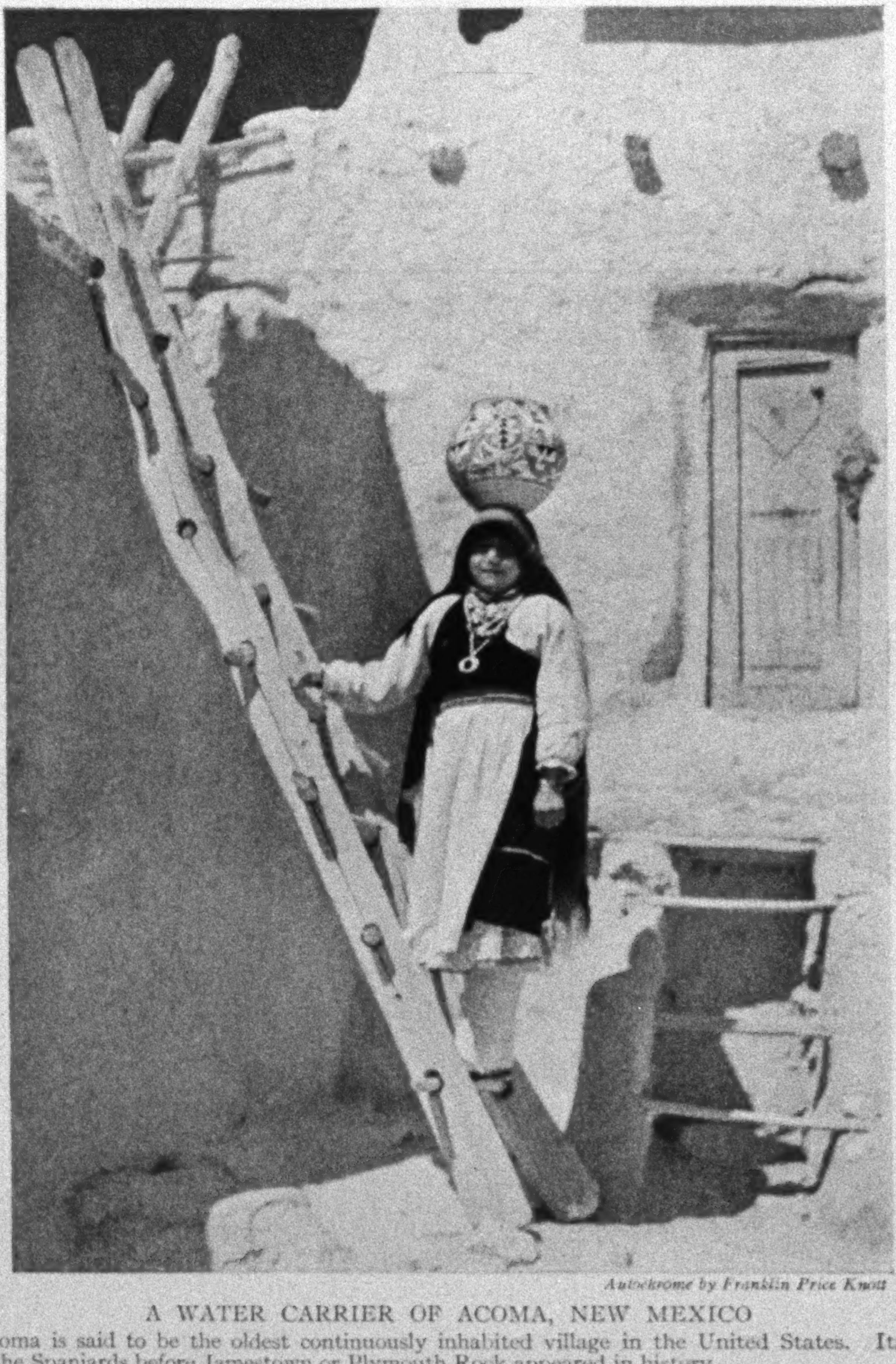
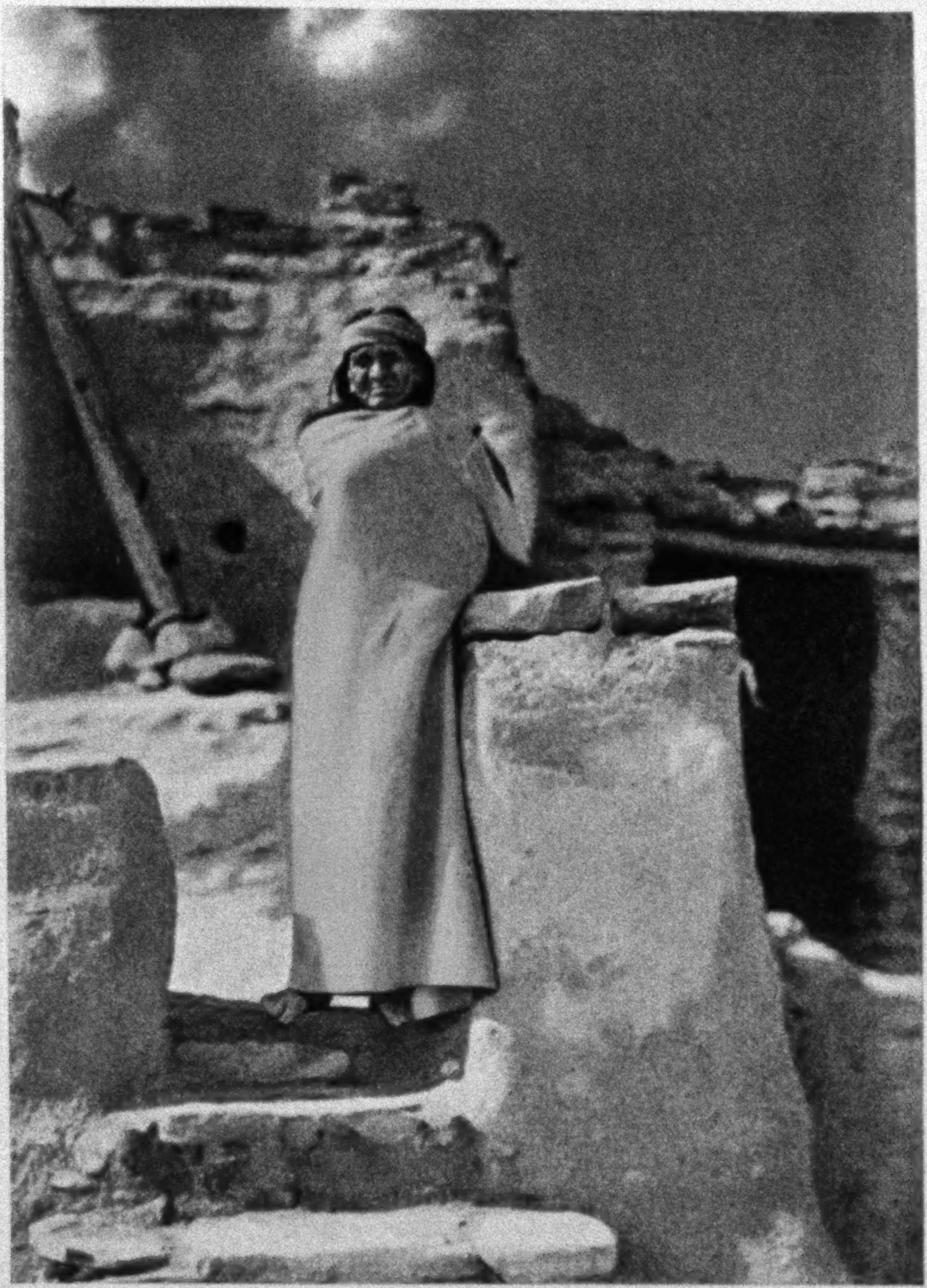


Autochrome by Franklin Price Knott

A WATER CARRIER OF ACOMA, NEW MEXICO

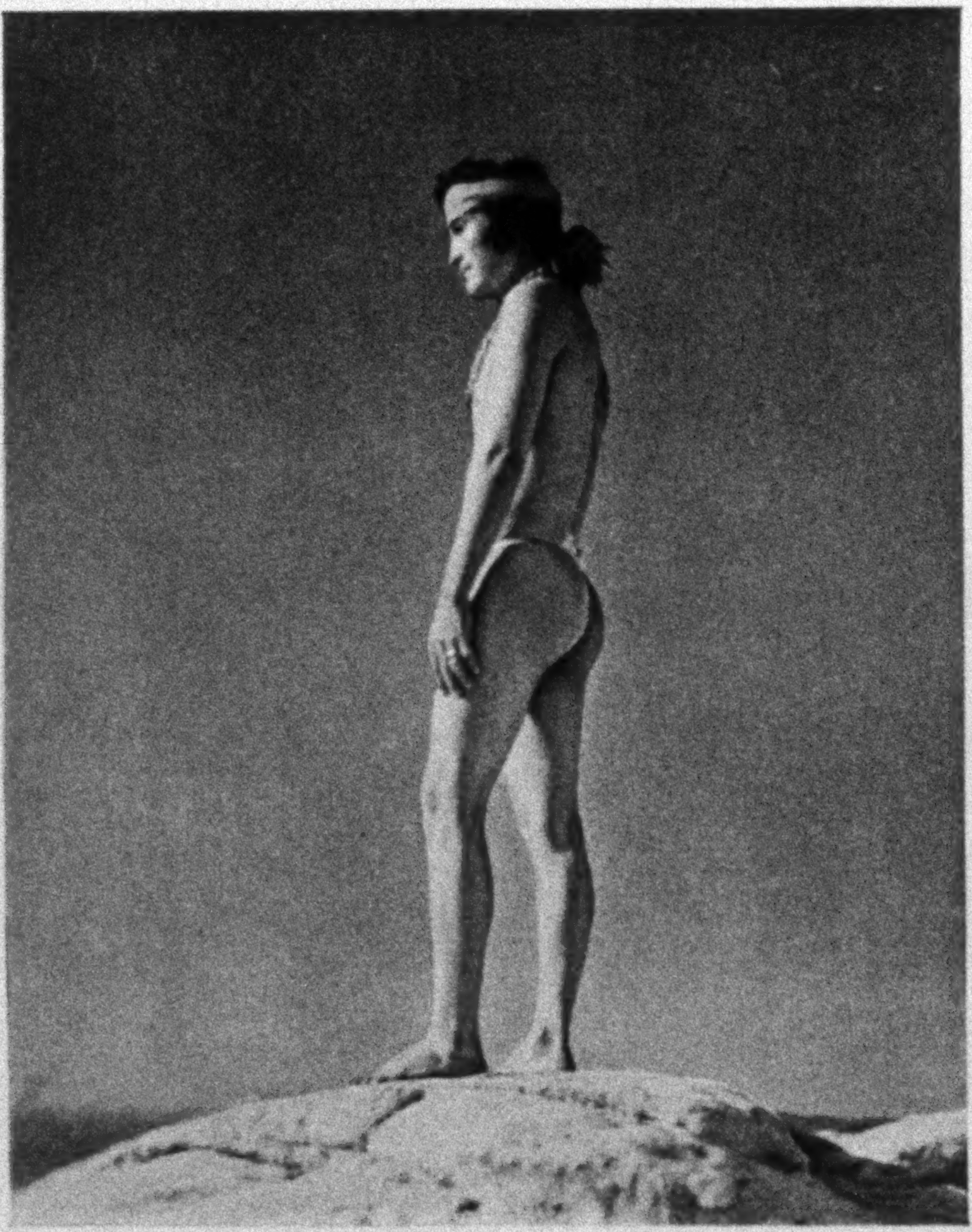
Acoma is said to be the oldest continuously inhabited village in the United States. Its people defied the Spaniards before Jamestown or Plymouth Rock appeared in history.



Autochrome by Franklin Price Knott

HOPI INDIAN AND HIS HOME

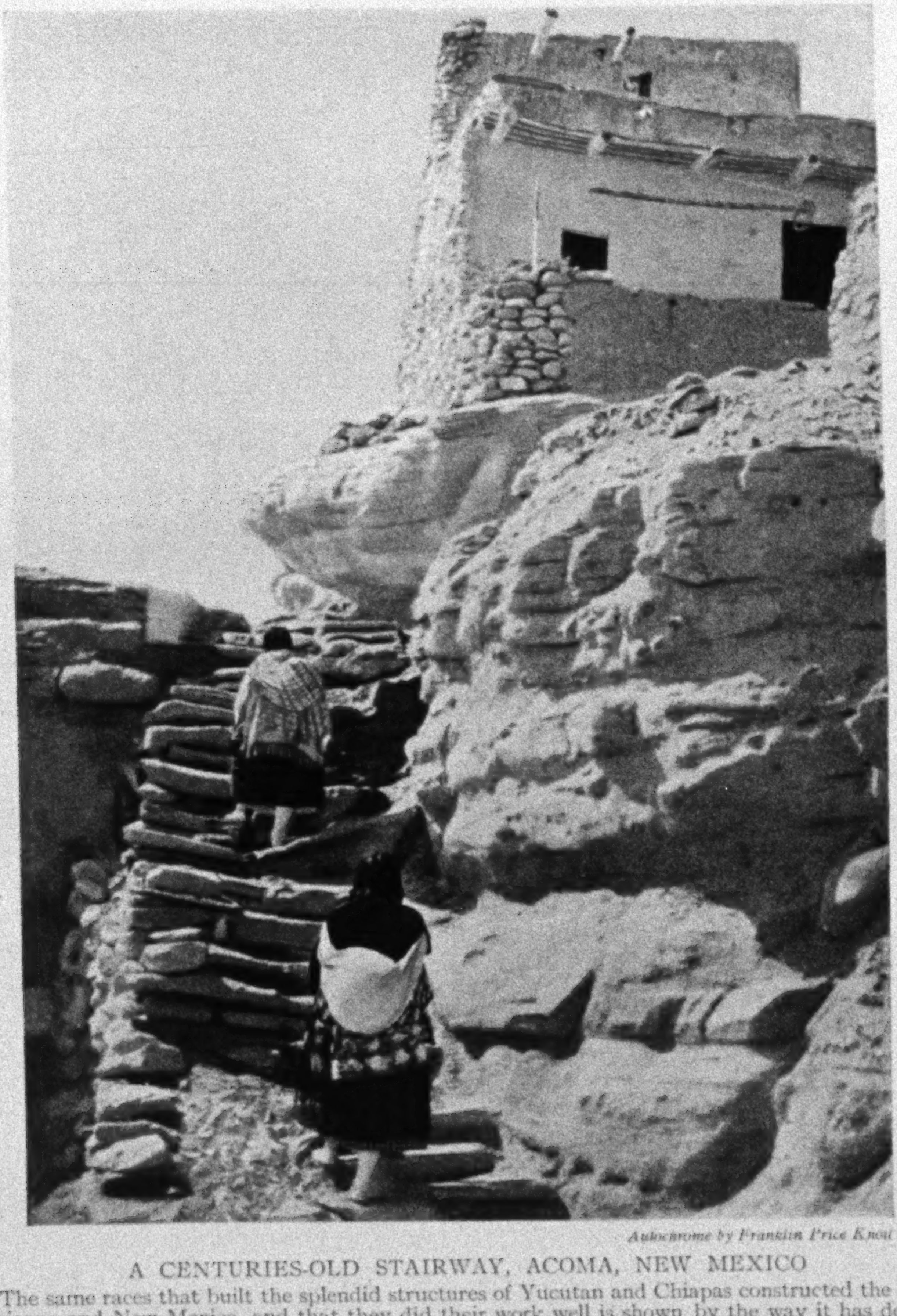
The brilliant red of his blanket proclaims the success of the Southwestern Indian in producing fast colors. Some tribes are able to make multi-hued blankets with the delicate shadings of the finest art embroidery, the weaving being so perfectly done that one cannot tell which is the right and which the wrong side.



Autochrome by Franklin Price Knott

A TWENTIETH CENTURY PHIDIPPIDES OF THE HOPI TRIBE

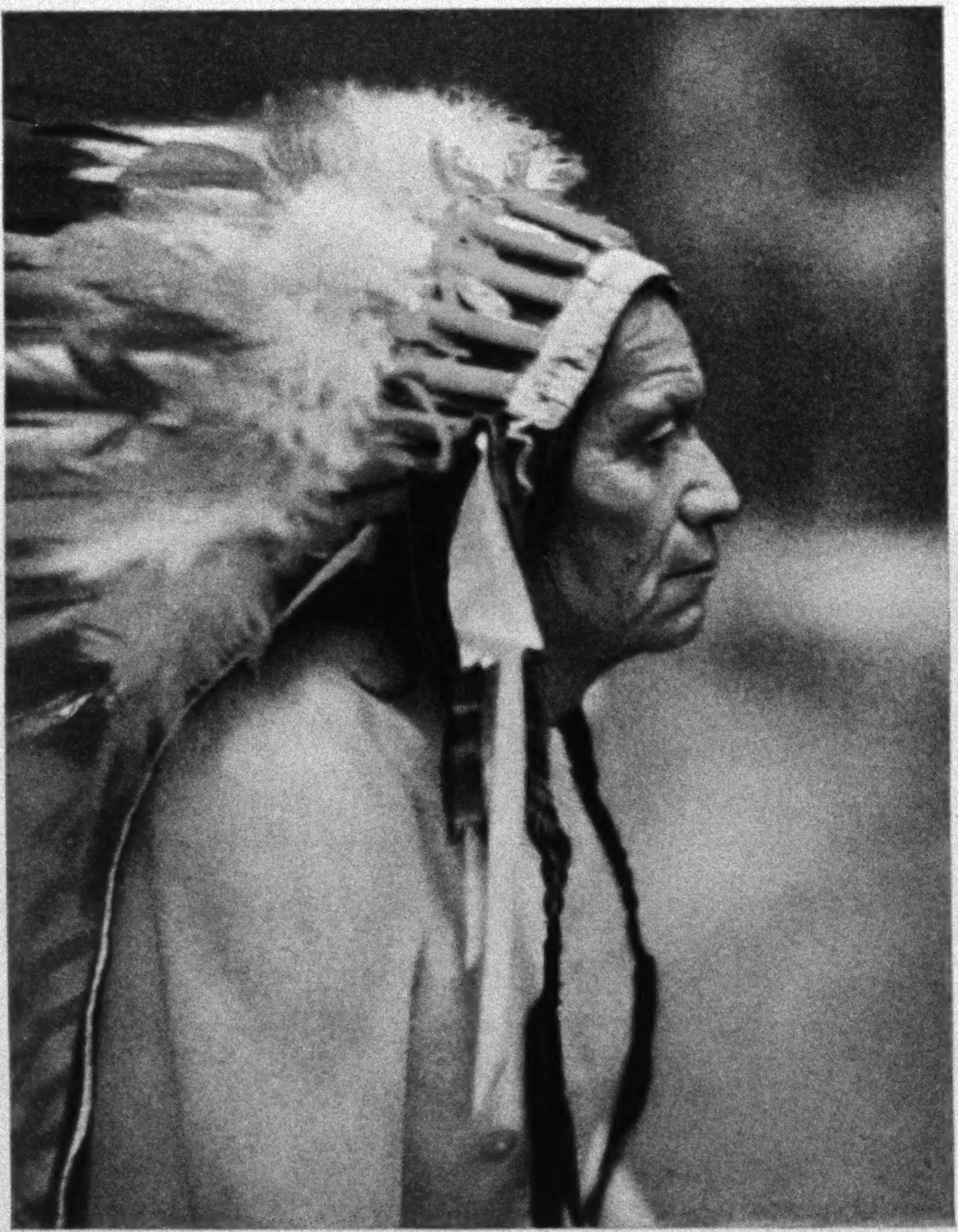
Not even the messenger to Sparta showed greater endurance than the pure-blooded son of the American desert. Many of the Hopi Indians ran daily to and from their little farms, often ten or twelve miles away from the barren mesa where they live.



Autochrome by Franklin Price Knott

A CENTURIES-OLD STAIRWAY, ACOMA, NEW MEXICO

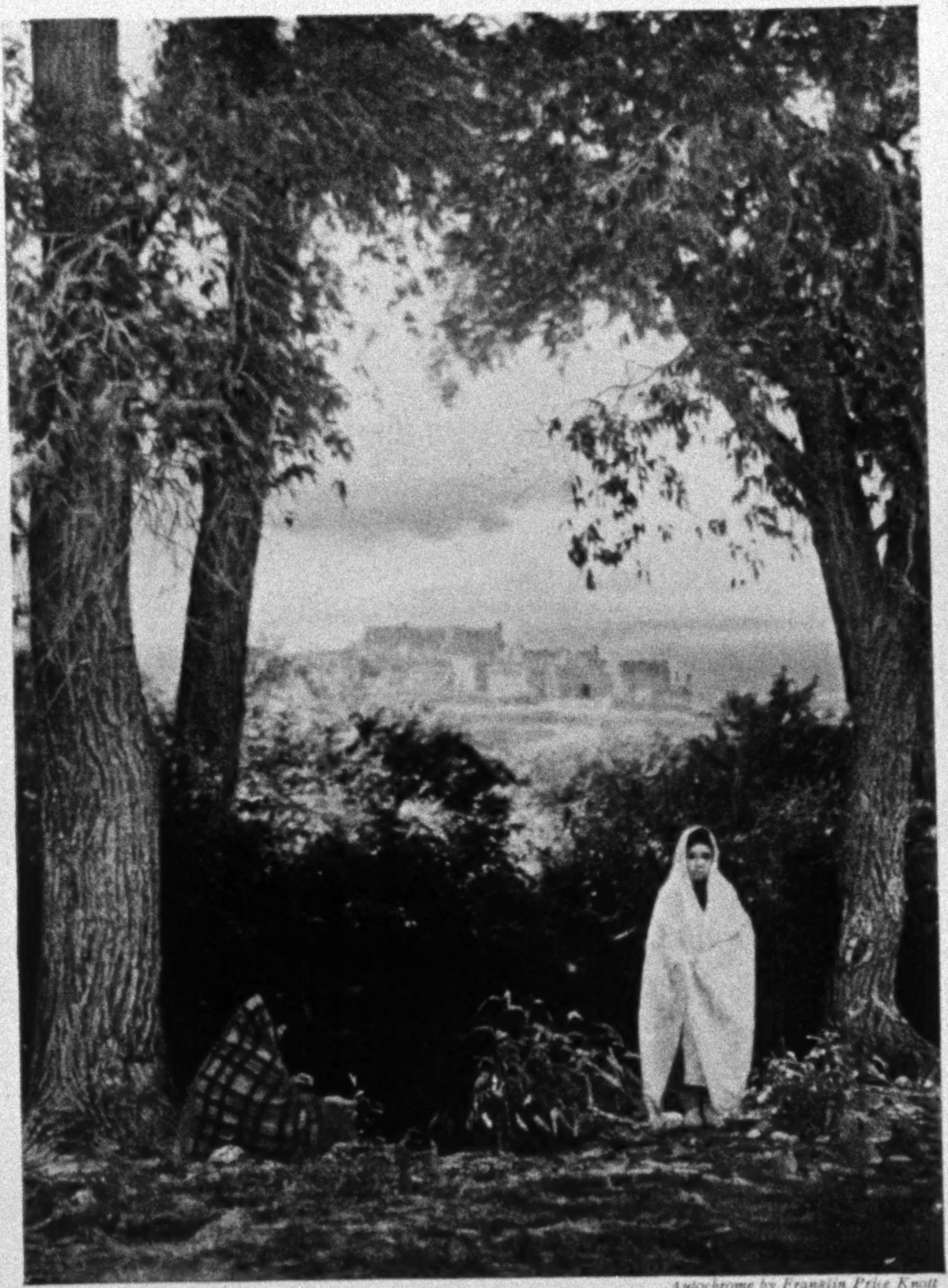
The same races that built the splendid structures of Yucutan and Chiapas constructed the pueblos of Arizona and New Mexico, and that they did their work well is shown by the way it has defied the teeth of time.



Autochrome by Franklin Price Knott

SUN BOW, PUEBLO CHIEF, OF TAOS, NEW MEXICO

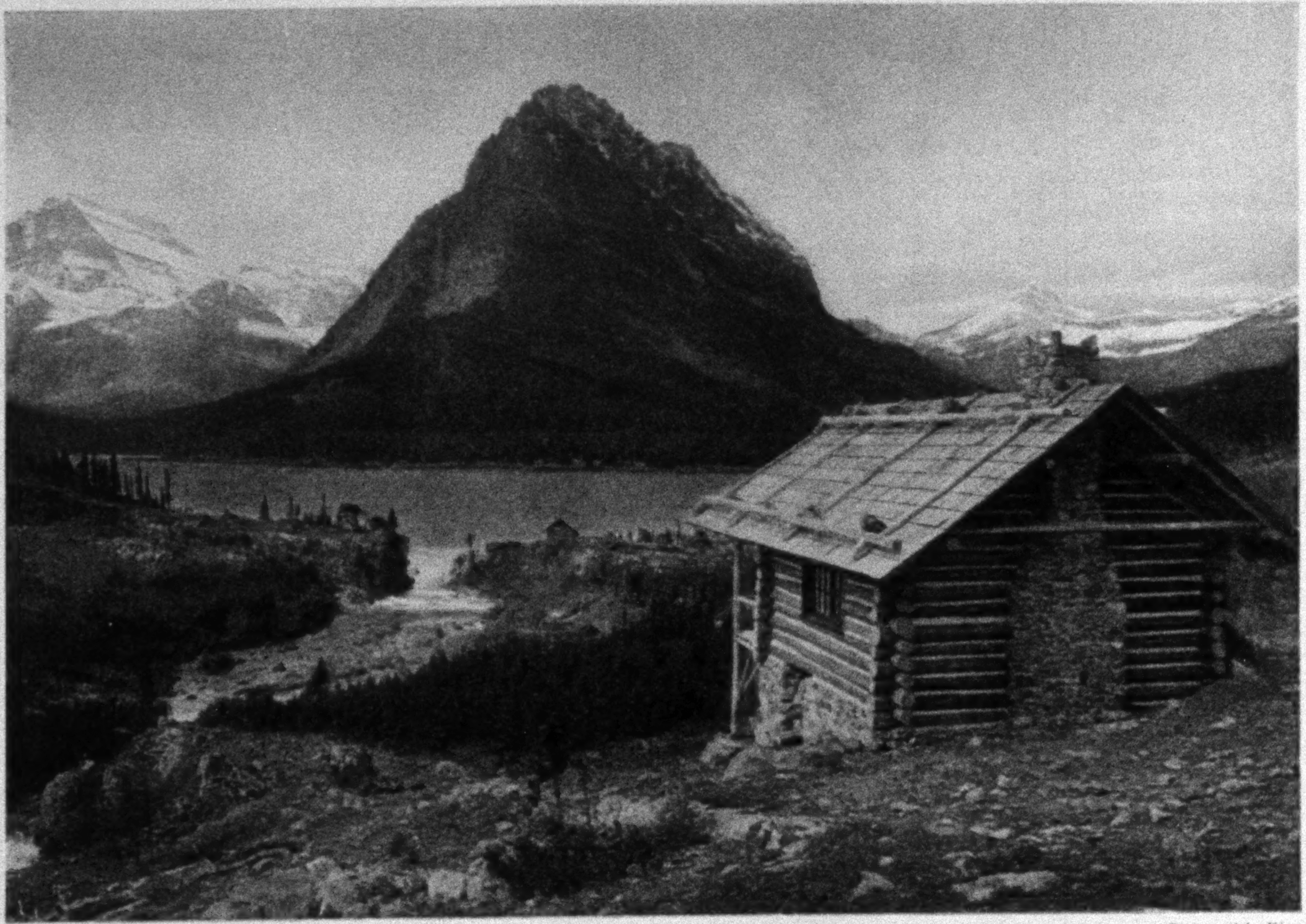
This noble specimen of his race, though wearing a war bonnet, is a man of peaceful pursuits. He and his people are not wards of the Government, for they hold their lands under early Spanish grants, and have always managed their own tribal affairs and property.



Autochrome by Franklin Price Knott

THE SOUTH PUEBLO OF THE TAOS INDIANS: NEW MEXICO

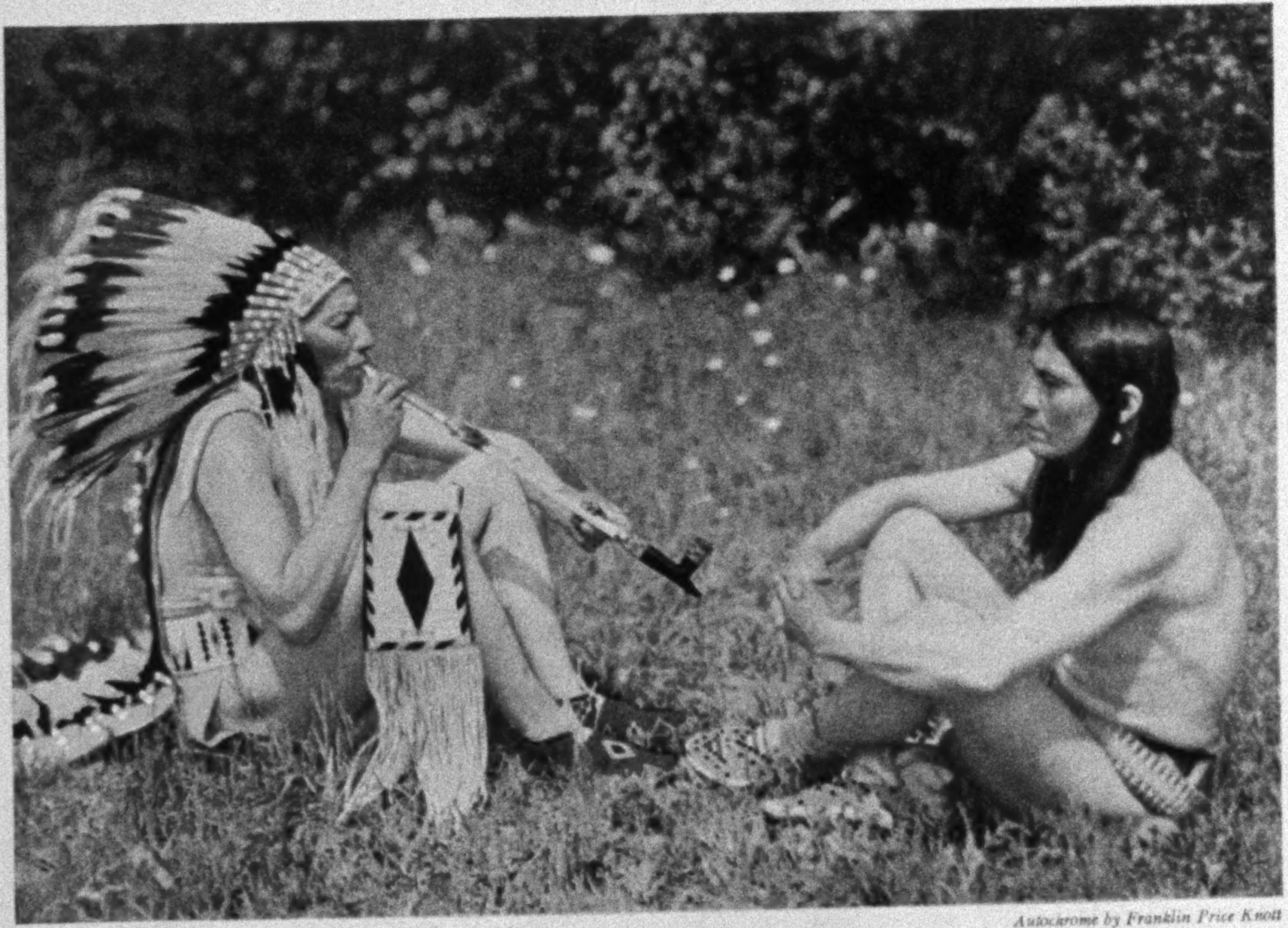
This is a big community house, the home of about three hundred industrious people.



Photograph by Kiser

LAKE McDERMOTT AS SEEN FROM MANY-GLACIER CAMP: THE GLACIER NATIONAL PARK

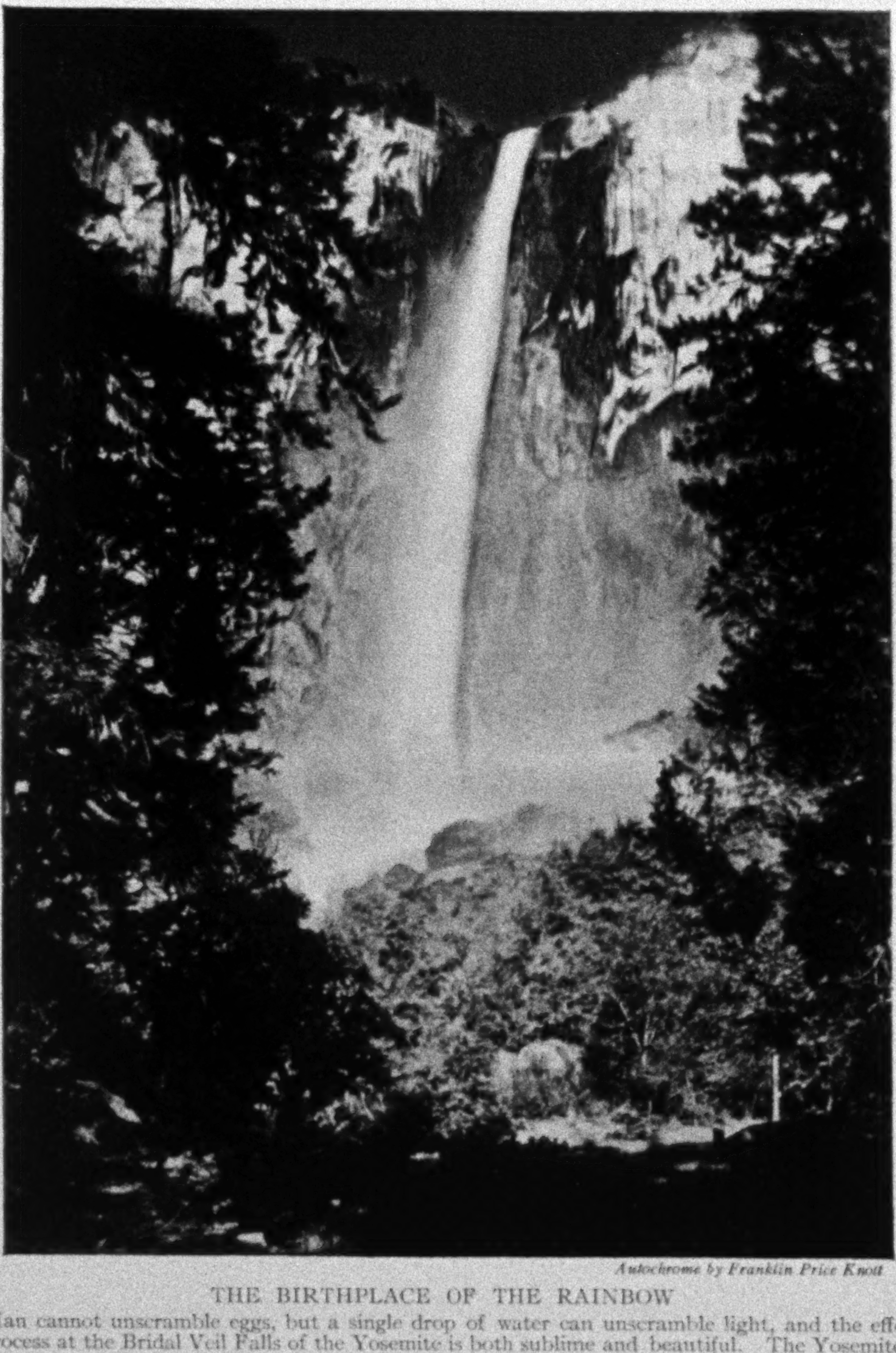
Hundreds of gigantic peaks of the Rocky Mountains crowd one upon the other through the length and breadth of Glacier Park. The richly colored cliffs afford an excellent background for flocks of snow-white mountain goat and mountain sheep, which have been so carefully protected in this park that these beautiful creatures, so rare elsewhere in America, are here quite common.



Autochrome by Franklin Price Knott

MEDICINE MEN COMPOUNDING THEIR POTIONS, GLACIER NATIONAL PARK

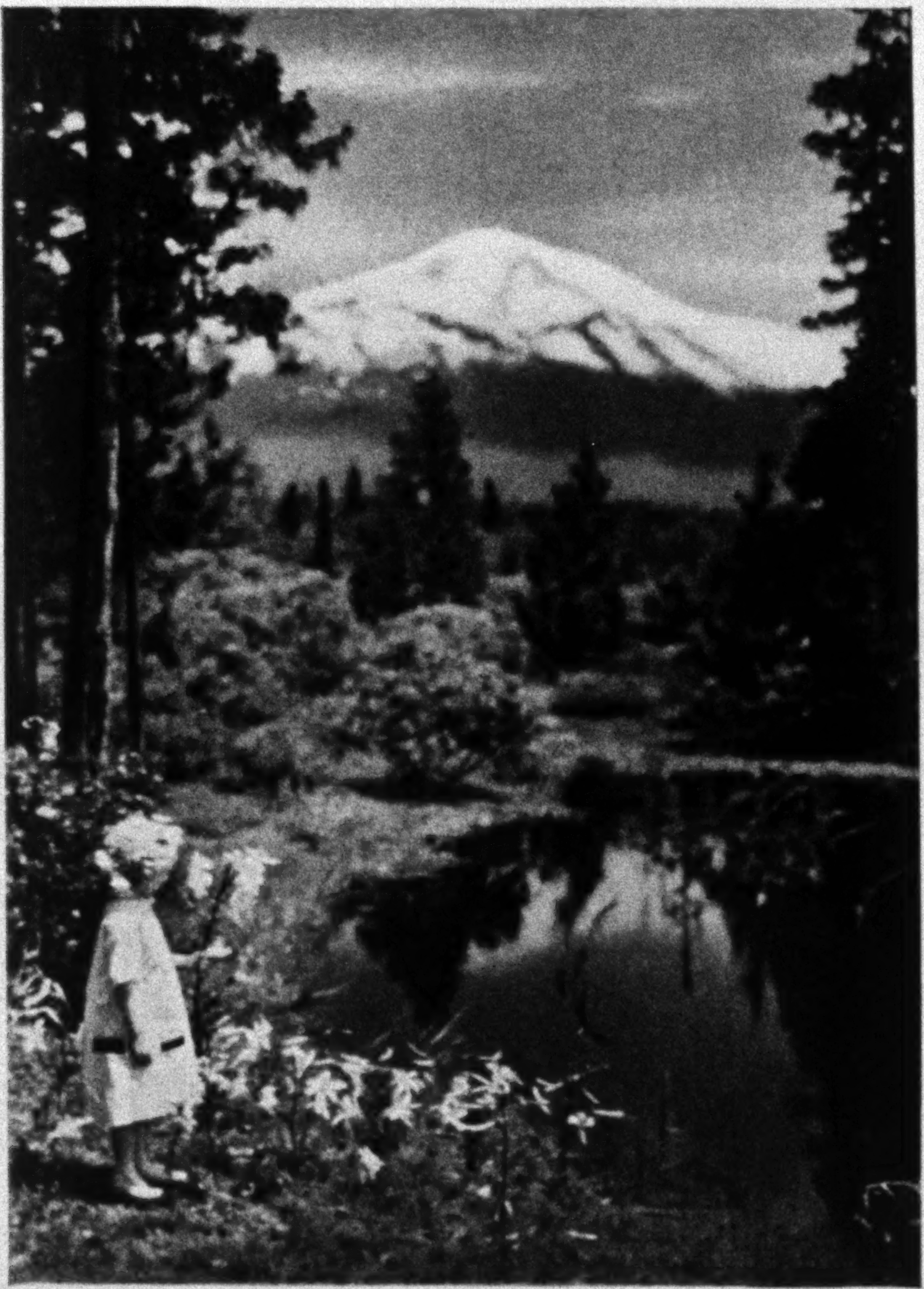
"Big Springs" and "Black Bull," the medicine men of the Blackfeet Indians, are among the best examples of their race. "Black Bull" wears his hair unbound as the badge of mourning for the death of a child.



Autochrome by Franklin Price Knott

THE BIRTHPLACE OF THE RAINBOW

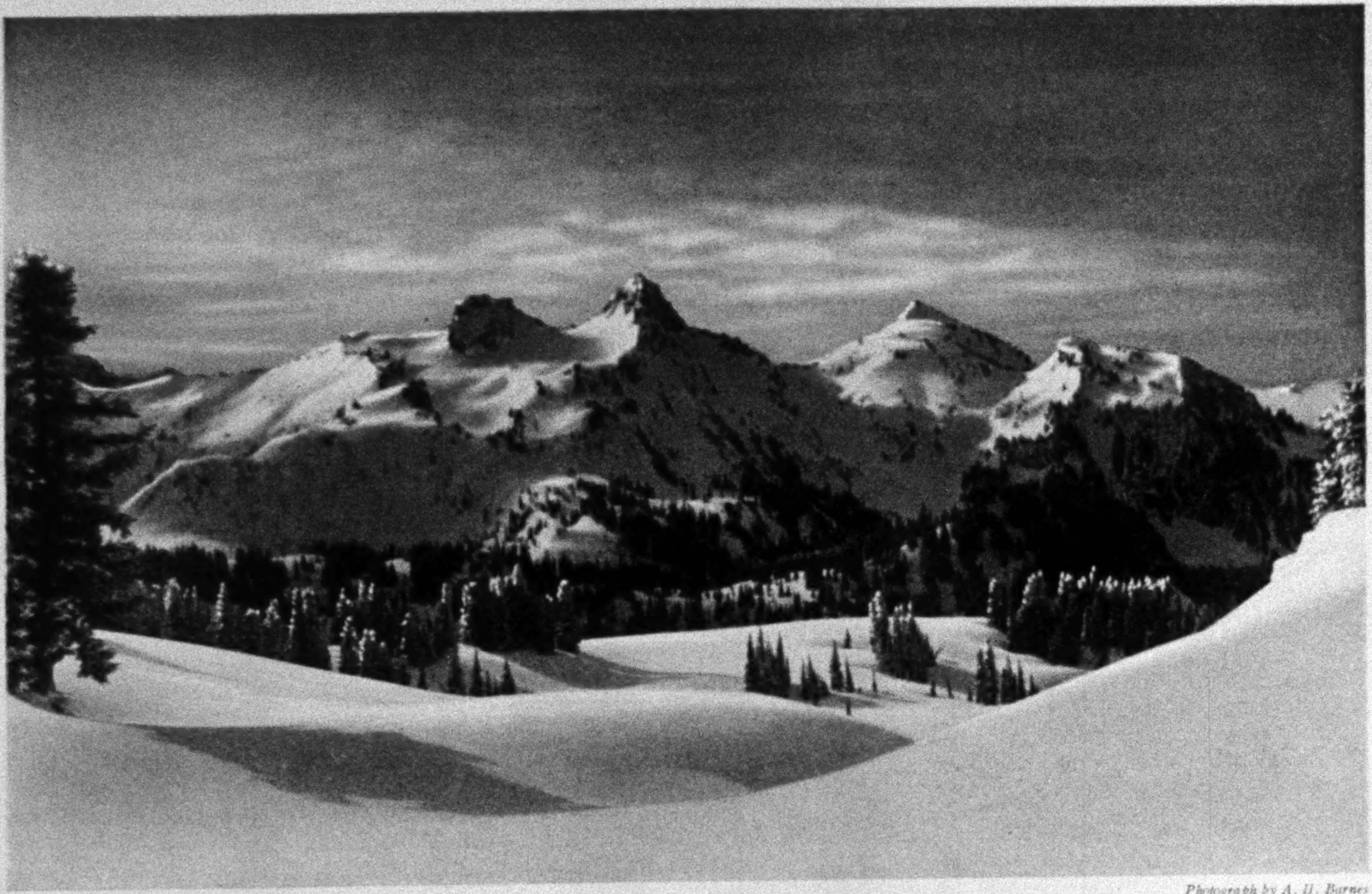
Man cannot unscramble eggs, but a single drop of water can unscramble light, and the effect of this process at the Bridal Veil Falls of the Yosemite is both sublime and beautiful. The Yosemite contains four other falls as magnificent as the subject of this picture, the Vernal Fall (drop 317 feet), the Nevada Fall (drop 594 feet), the Illilouette Fall (drop 370 feet), and the Yosemite Falls (upper fall, drop of 1430 feet; lower fall, drop of 320 feet). The Bridal Veil Falls has a drop of 620 feet. Each one of these five remarkable waterfalls surpasses in grandeur and the magic play of light and water, any waterfall of Switzerland or on the continent of Europe.



Autochrome by Franklin Price Knott

CONSIDERING THE LILIES: MT. SHASTA IN THE DISTANCE

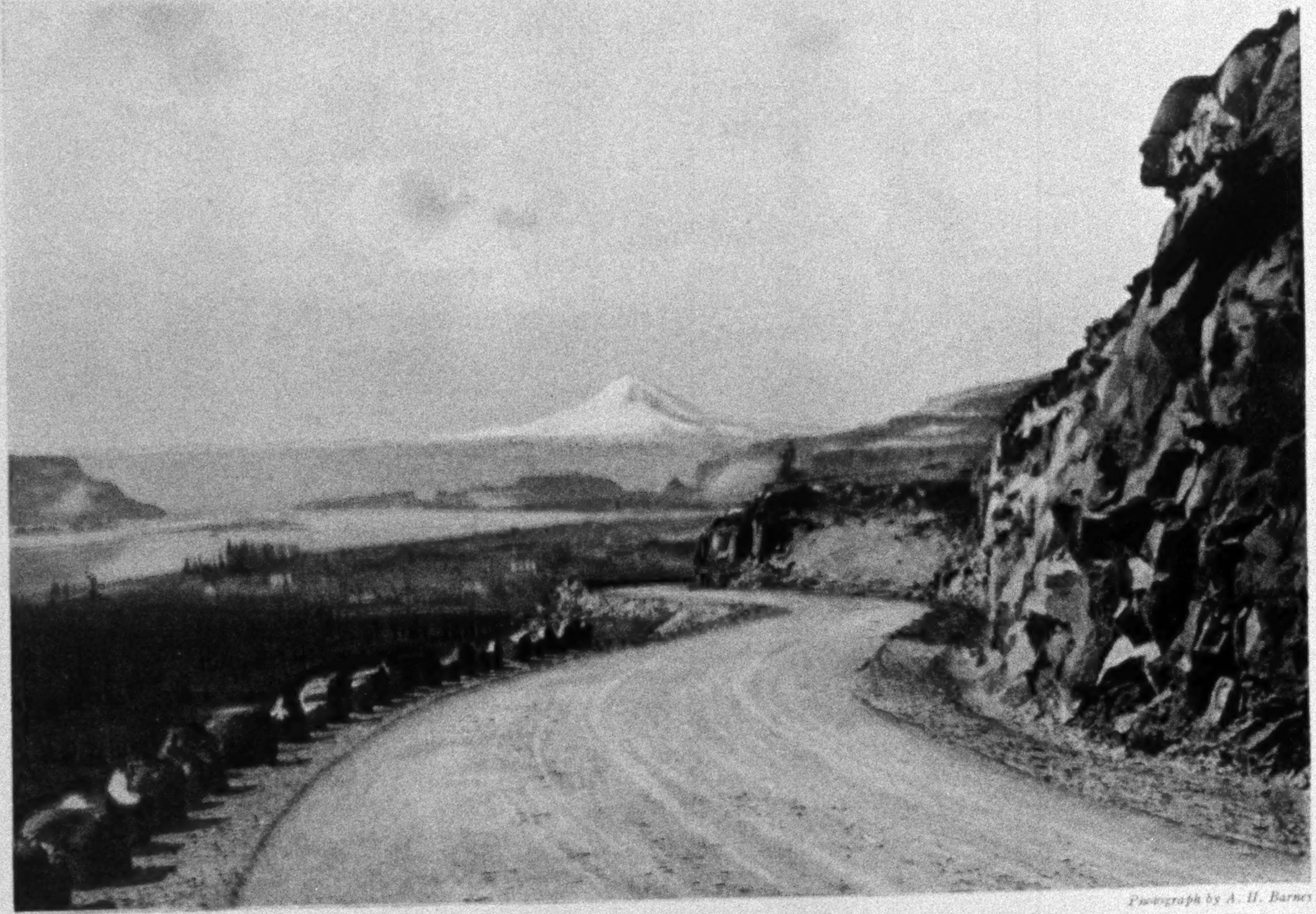
Mount Shasta, according to an Indian legend, was the first mountain made by the Creator as His masterpiece, and with this as a model He designed the other mountains of the world. The ascent of Shasta is difficult, but with competent guides is not perilous. With the little town of Sisson as a base, there is a good horseback trail to Timberline Camp, an overnight rest six miles away. Starting from this camp very early the next morning, the experienced mountaineer can make the ascent and return to Sisson in a day.



Photograph by A. H. Barnes

A WINTER SUNRISE, RAINIER NATIONAL PARK

This view shows the southern slope of Tatoosh Range, the height of which may be judged from the statement that the foreground itself is more than a mile higher than the Pacific at high tide.



Photograph by A. H. Barnes

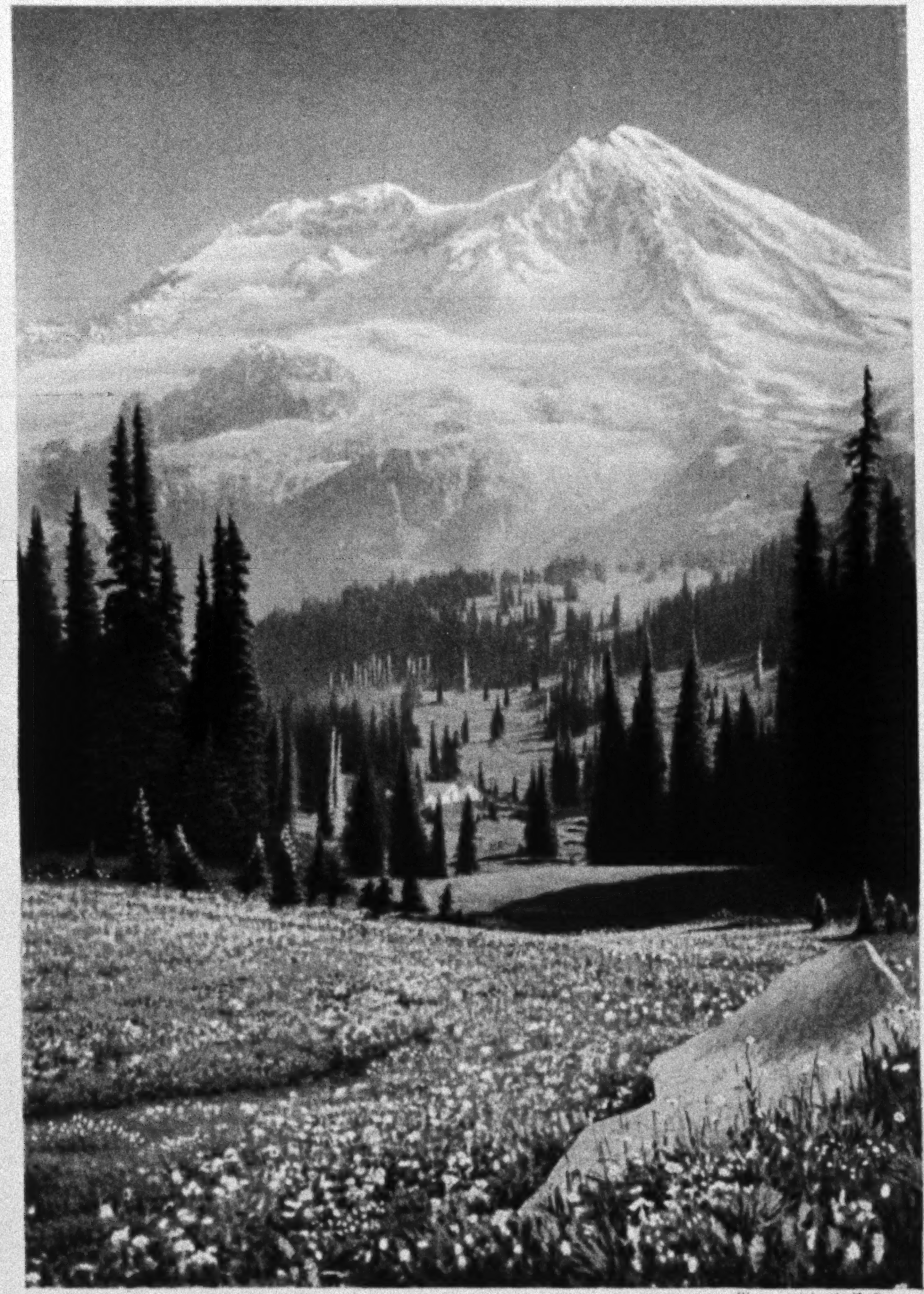
A WASHINGTON LANDSCAPE: MOUNT HOOD SIXTY MILES AWAY, AND MARYHILL IN THE FOREGROUND

Between snow-capped mountains, broad rivers, magnificent highways, splendid farms, and inspiring landscapes, the West Coast and the Inland Empire offer rich rewards to the tourist who loves the grand, the sublime and the beautiful. The Columbia River Highway, in Oregon, is well named "America's Greatest Boulevard," and, from an engineering standpoint as well as from the scenic wonderland which the road unfolds as it cuts through two great mountain ranges to the sea, is unsurpassed by any highway in the world.

Photograph by A. H. Barnes

BIG TREES IN RAINIER NATIONAL PARK

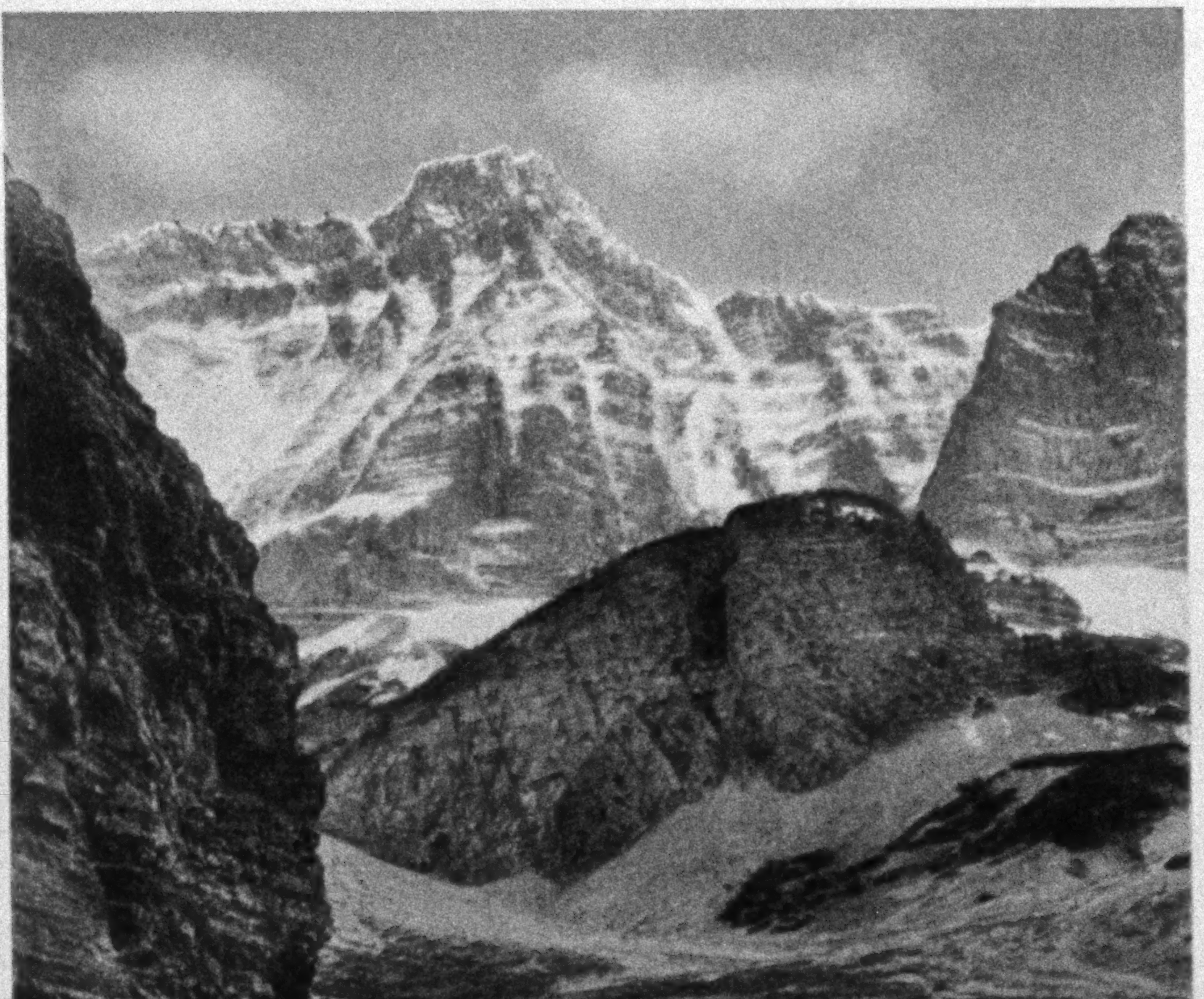
After all, it may be the big tree that will explain one of civilization's greatest mysteries. Under the scientists' micrometer it is telling us of striking fluctuations of climate in bygone ages, and introducting a new factor in that most profound and far-reaching of the problems of history—the cause of the rise and fall of nations.



Photograph by A. H. Barnes

ALPINE FLOWERS IN RAINIER NATIONAL PARK

The flowers of our mountains match the sunset skies for color, the sands of the sea for numbers, and the filmy-winged butterfly for grace.



Photograph by Kiser

A SAPPHIRE IN A MOUNTAIN SETTING: BLUE LAKE IN THE GLACIER NATIONAL PARK

What American engineers have done at Gatun, glaciers have done in our high mountains. A glacier lake is often a dam-obstructed river, the dam being built out of the earth-shavings resulting from the flowing onward sweep of the mountains of ice.

being the same in temperature, color, or composition."

The Yellowstone National Park has a canyon gorgeous with all the colors and shades of the rainbow, and is the best stocked wild-animal preserve in the world (page 372).

THE GLACIER NATIONAL PARK

The situation of Glacier National Park is unique, in that it mothers streams which flow into three out of five of the earth's great oceans. It may well claim to be the top of the continent, for its rivers drain into Hudson Bay and the Arctic Ocean, into the Pacific, and through the Missouri and the Mississippi into the Atlantic.

As the Blackfeet Indian Reservation adjoins the park, the visitor has the added touch of charm that Indian life gives to any wild place (see pages 386-393 and 403).

The Glacier National Park was made by the earth cracking in some far-distant time and one side thrusting up and overlapping the other. It has cliffs several thousand feet high, and more than sixty glaciers feed hundreds of lakes. One lake floats icebergs all summer. The scenery is truly Alpine (see pages 402 and 410).

Lake St. Marys, Lake McDermott (page 402), and Lake McDonald are the peers of any of the mountain lakes of Switzerland and Italy. This park covers an area of 1,534 square miles, and maintains such an excellent chain of chalets, hotels, and trails that the tourist can see its many attractions in comfort.

THE PARKS IN COLORADO

The Rocky Mountain National Park straddles the Continental Divide at a lofty height, with snow-capped mountains extending from end to end. This park is in the heart of the Rockies northwest of Denver, with Longs Peak as its center. It was established by congressional enactment last year. Estes Park, the gateway to this mountain playground, is a beautiful little valley town nestled at the foot of the ridge, and yet itself more than a mile and a half above sea-level. Longs Peak is nearly three miles high, and has several neighbors that run it a close second.

The Mesa Verde National Park hides in its barren canyons the well-preserved ruins of a civilization which passed out of existence so many centuries ago that not even tradition recalls its people.

Here one may study the modes of life of the prehistoric American as they can be studied in few places. These aborigines had their civic center and they had some progressive ideas in city planning. Community life was the order of those times. One house had 200 rooms for family use and 22 for worship. Another once sheltered 350 aborigines. The Sun Palace, discovered by Dr. Fewkes in 1915, is an ambitious structure, apparently dedicated entirely to the worship of the sun.

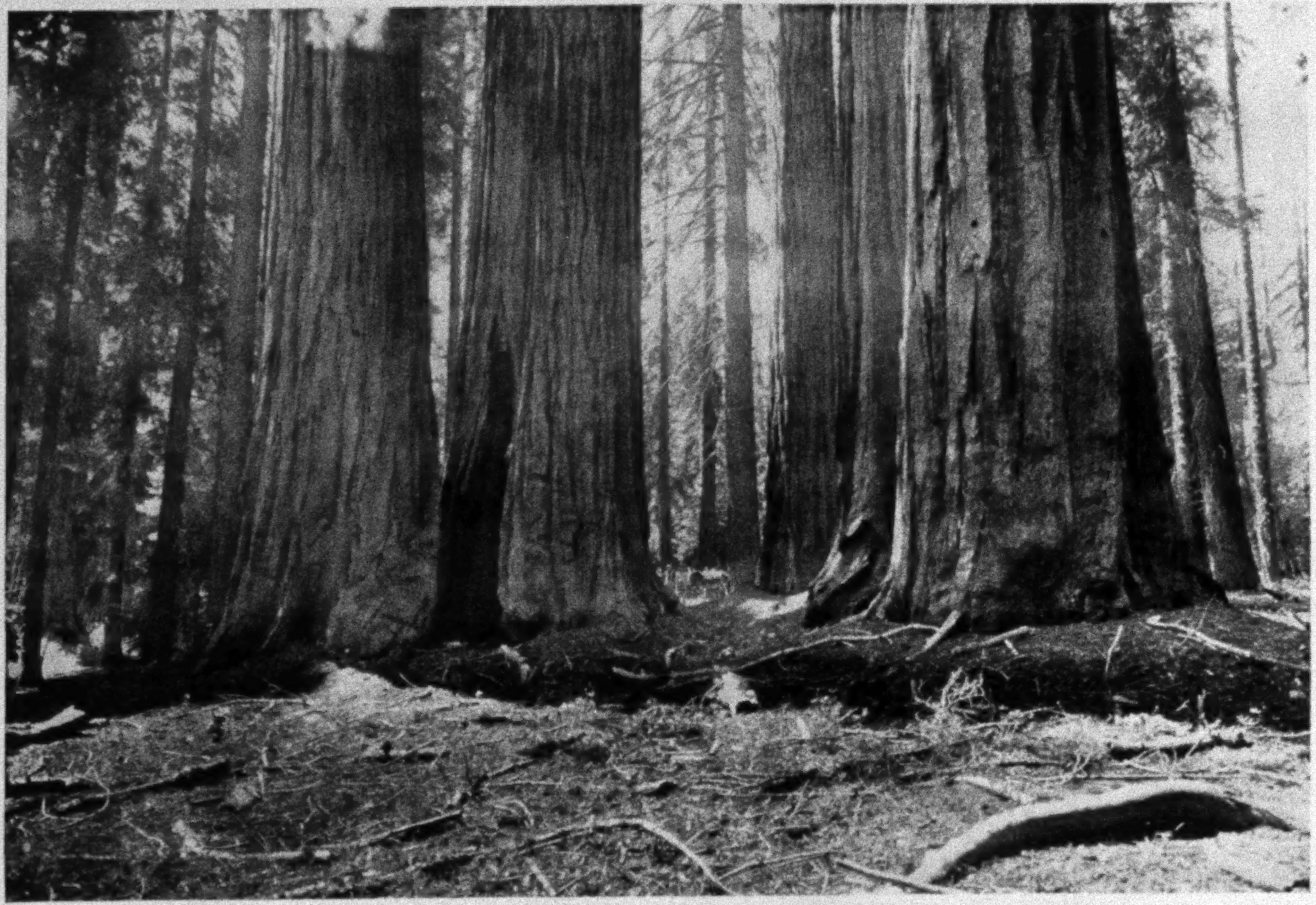
MT. RAINIER NATIONAL PARK

Mt. Rainier seems to keep perpetual guard over Seattle, Tacoma, and Olympia. Any one who has beheld its many moods, who has watched the ever-changing picture as varying lights have played upon its summit, who has coasted on its glacial rivers, can understand why the Indians called it "Tahoma—the mountain that was God."

The Far Northwest was once a region of terrific volcanic activity. Mt. Shasta, Mt. Hood, Mt. St. Helens, Mt. Adams, Mt. Rainier, and Mt. Baker all stand in one far-flung group as silent witnesses of the dim ages when America was in the making and when they sent their beacon lights across the sea.

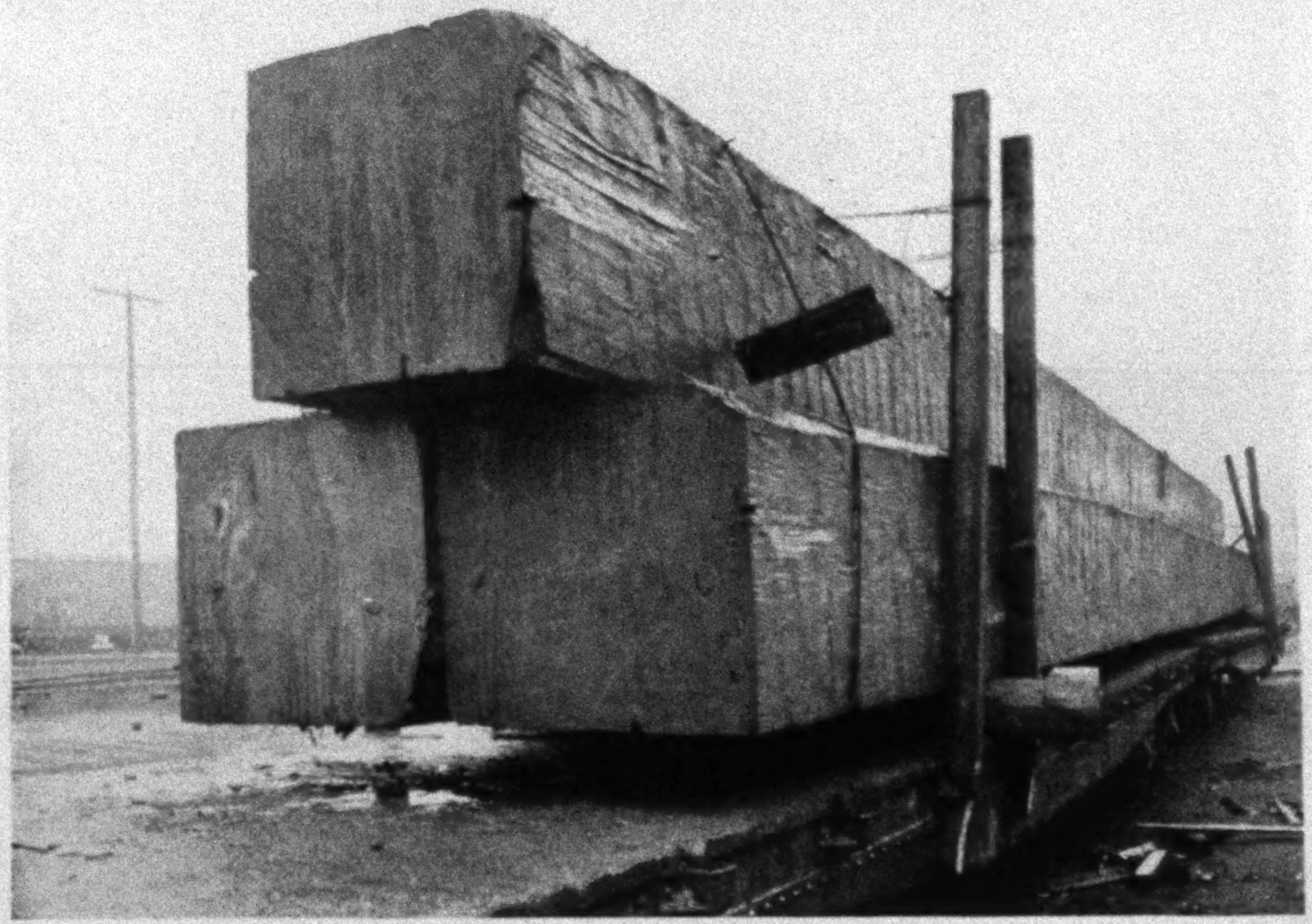
Where once flamed the fervent fires of earth's boiling caldrons, today snow and ice reign supreme; where once floods of molten lava swept, today forests of fir, pine, and cedar and gorgeously carpeted flower beds refresh the tourist.

Mt. Rainier has a glacier system exceeding in size that of any other single mountain within continental United States. From its summit and cirques twenty-eight named and a number of unnamed rivers of ice pour slowly down its sides. These rivers of ice have carved on what was once a perfect cone fourteen valleys through the solid rock. A bird's-eye view taken from above the mountain would show it to be covered by



THE GIANT FOREST IN THE SEQUOIA NATIONAL PARK: CALIFORNIA

The extraordinary redwoods of California grow on the western slopes of the Sierra Nevada. Many splendid specimens are to be seen in the Yosemite National Park, but they are found in the greatest numbers in the Sequoia National Park, reached via Visalia, California



Photograph by Curtis & Miller

WESTERN LOGS USED AS DREDGE TIMBERS AT PANAMA

So superior are the trees of the West for masts that they are in demand in almost every shipyard in the world. In the words of Muir: "They are felled and peeled, dragged to tidewater, raised again as masts and yards of ships, given iron roots and canvas foliage, decorated with flags, and sent to sea, where in glad motion they go cheerily over the ocean prairie, in every latitude and longitude, singing and bowing responsive to the same winds that waved them when they were in the woods. After standing in one place for centuries they thus go round the world like tourists, meeting many a friend from the old home forest; some traveling like themselves, some standing head downward in muddy harbors, holding up the platforms of wharves, and others doing all kinds of hard timber work, showy or hidden."

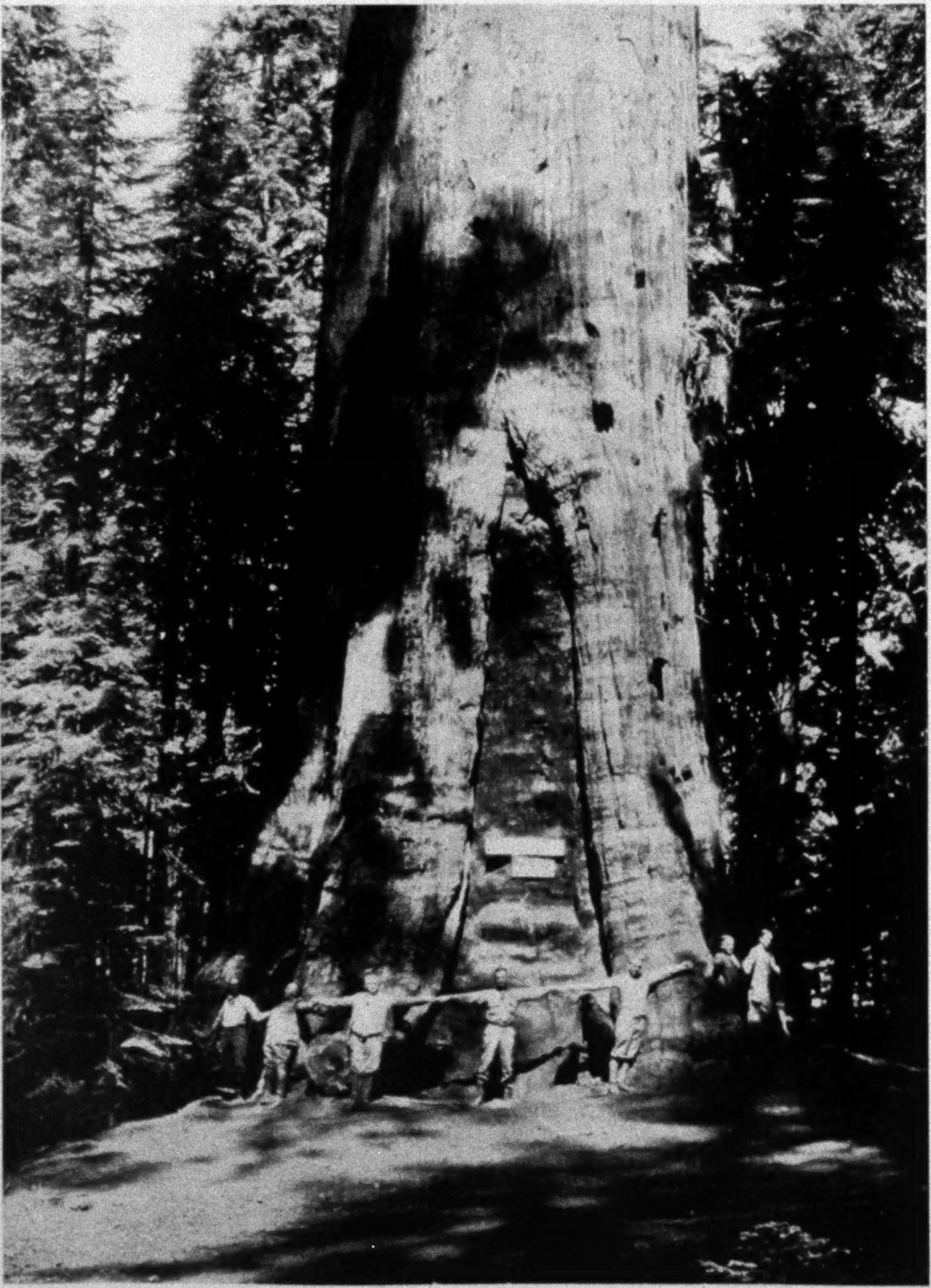
an enormous frozen octopus, stretching icy tentacles down among the rich gardens of wild flowers and through forests of fir and cedar (pp. 406, 408, 409, 427).

THE YOSEMITE AND SEQUOIA NATIONAL PARKS

No words can adequately describe the majesty and friendliness of the giant redwood trees of the Sequoia and Yosemite National Parks, the stately granite domes and sharp pinnacles, the roaring white cascades, the deep, dark canyons; the fragrance of meadows carpeted with lupine, columbine, evening primrose, mariposa lily, shooting-star, pride of the mountain, etc., and the many sweet-scented pines and cedars, among which are flitting countless songsters dressed in as lovely colors as the flowers.

In this fairyland, the lover of outdoor life can camp for months in summer without taking tent or raincoat, for it never rains here in vacation time.

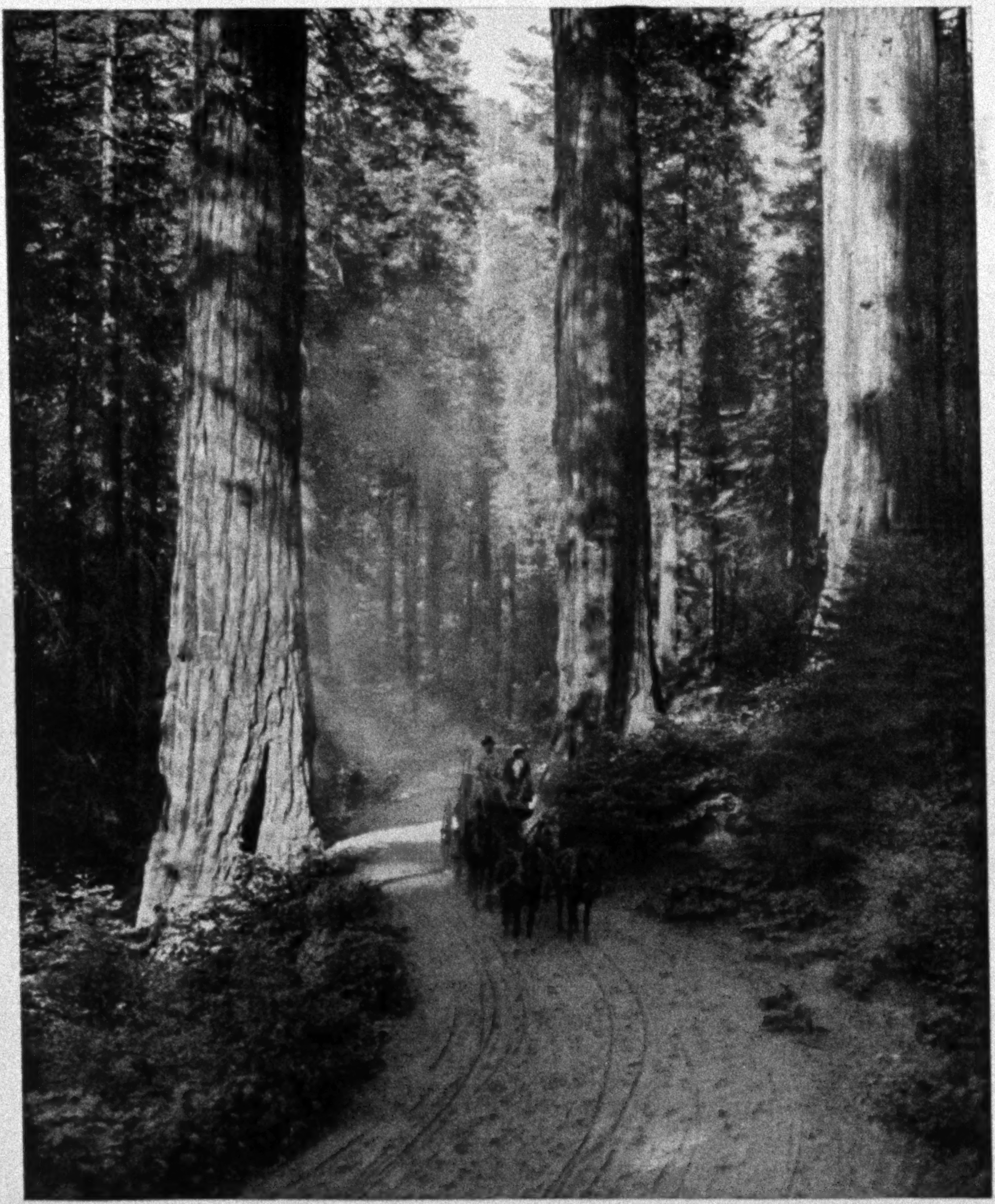
Switzerland, the playground of Europe, visited annually (until 1915) by more than 100,000 Americans, cannot compare in attractiveness with the High Sierra of central California. Nothing in the Alps can rival the famous Yosemite Valley (pages 401, 416, 417), which is as unique as the Grand Canyon. The view from the summit of Mt. Whitney surpasses that from any of the peaks of Switzerland. There are no canyons in Switzerland equal to those of the Kern



Photograph by Gilbert H. Grosvenor

GENERAL SHERMAN, THE KING OF ALL TREEDOM: SEQUOIA NATIONAL PARK

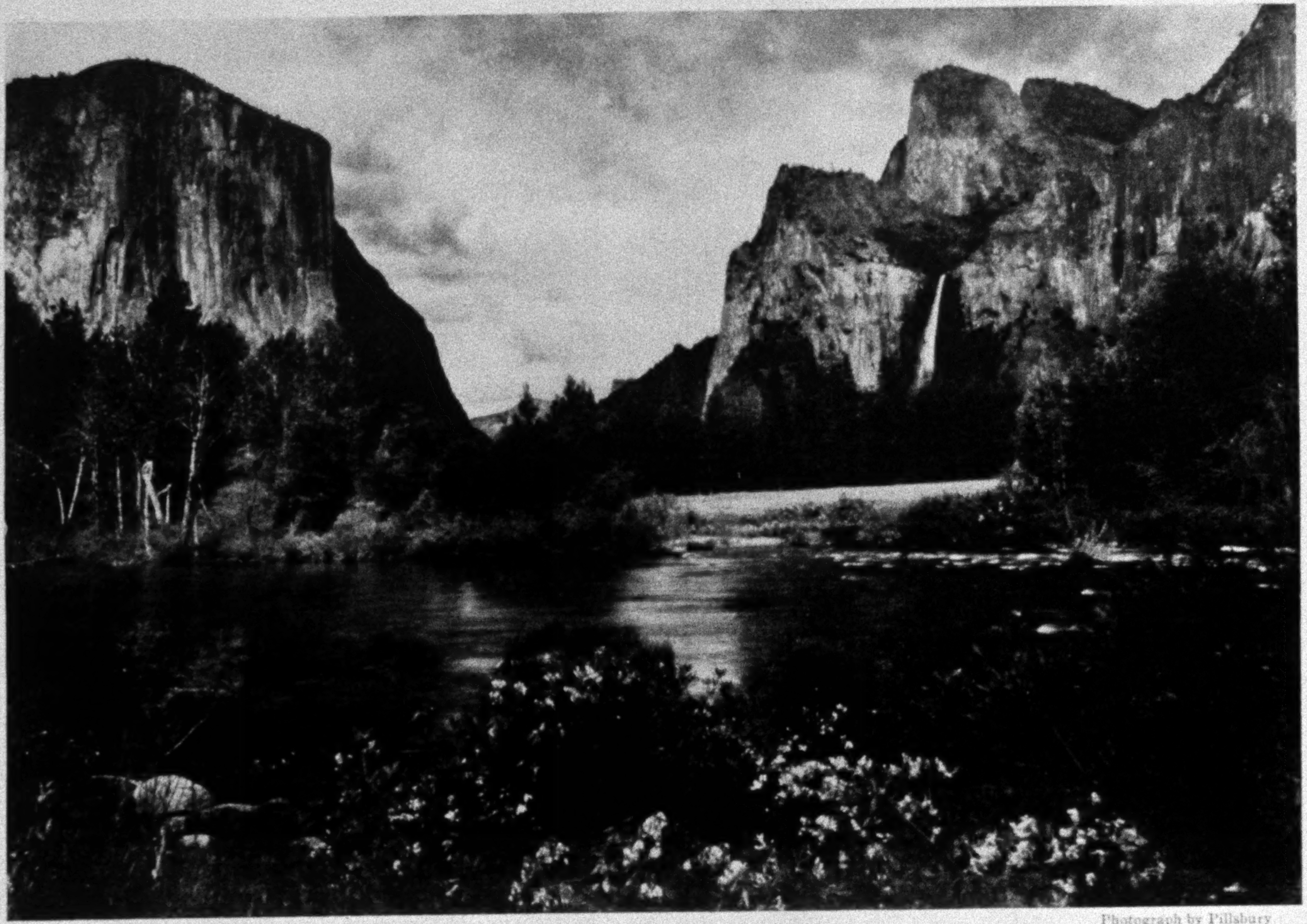
It takes twenty men with arms outstretched to encircle the tree. The General Sherman tree is pronounced by the United States Government the biggest tree in the world, measured by the amount of wood it contains (see also the remarkable photograph by Eddy printed as the frontispiece to this number).



Photograph by Lindley Eddy

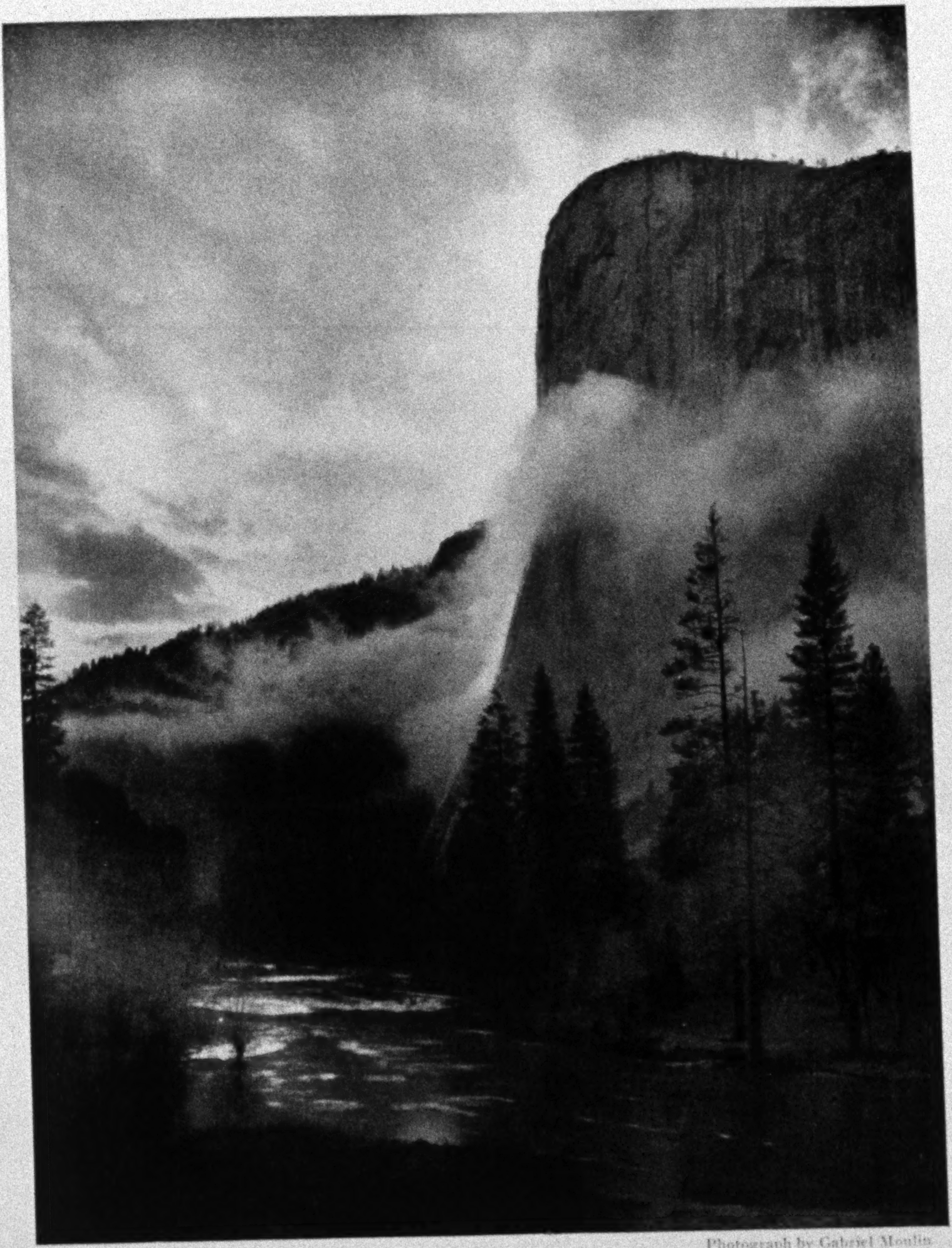
IN THE GIANT FOREST OF THE SEQUOIA NATIONAL PARK, CALIFORNIA

The "General Sherman" Tree, shown on the preceding page and in the frontispiece, belongs to the greatest grove of trees anywhere in the world—the Giant Forest of the Sequoia National Park. The General Sherman fortunately stands on public land, but the majority of the redwoods of the Giant Forest are privately owned. Though it was to preserve this incomparable group of trees that the Sequoia National Park was created by Congress in 1890, funds have been lacking to buy about 1,000 acres scattered through the grove, in 40-acre tracts, on which stand most of the best trees. The owners have expressed a willingness to dispose of their lands to the government and have given options on their holdings, but Congress has never appropriated the money for their purchase. If Congress does not soon appropriate the $50,000 required, it is to be hoped that sufficient funds may be raised by private subscription to buy the private holdings in the park and donate them to the National Government. While these splendid trees are in private hands, there is always the possibility of their destruction.



Photograph by Pillsbury

THE GATEWAY TO THE YOSEMITE, WITH EL CAPITAN ON THE LEFT AND THE CATHEDRAL ROCKS AND POHONO FALLS ON THE RIGHT



Photograph by Gabriel Moulin

EL CAPITAN: YOSEMITE NATIONAL PARK

Towering 3,600 feet above the Merced River, which mirrors back its beauty and its majestic lines, El Capitan, that vast block of unjointed granite, each of whose several faces shows a surface of more than 160 acres, stands in stately silence, one of the noblest rocks on earth—a literal rock of ages.

Photograph from Dewitt Hutchings

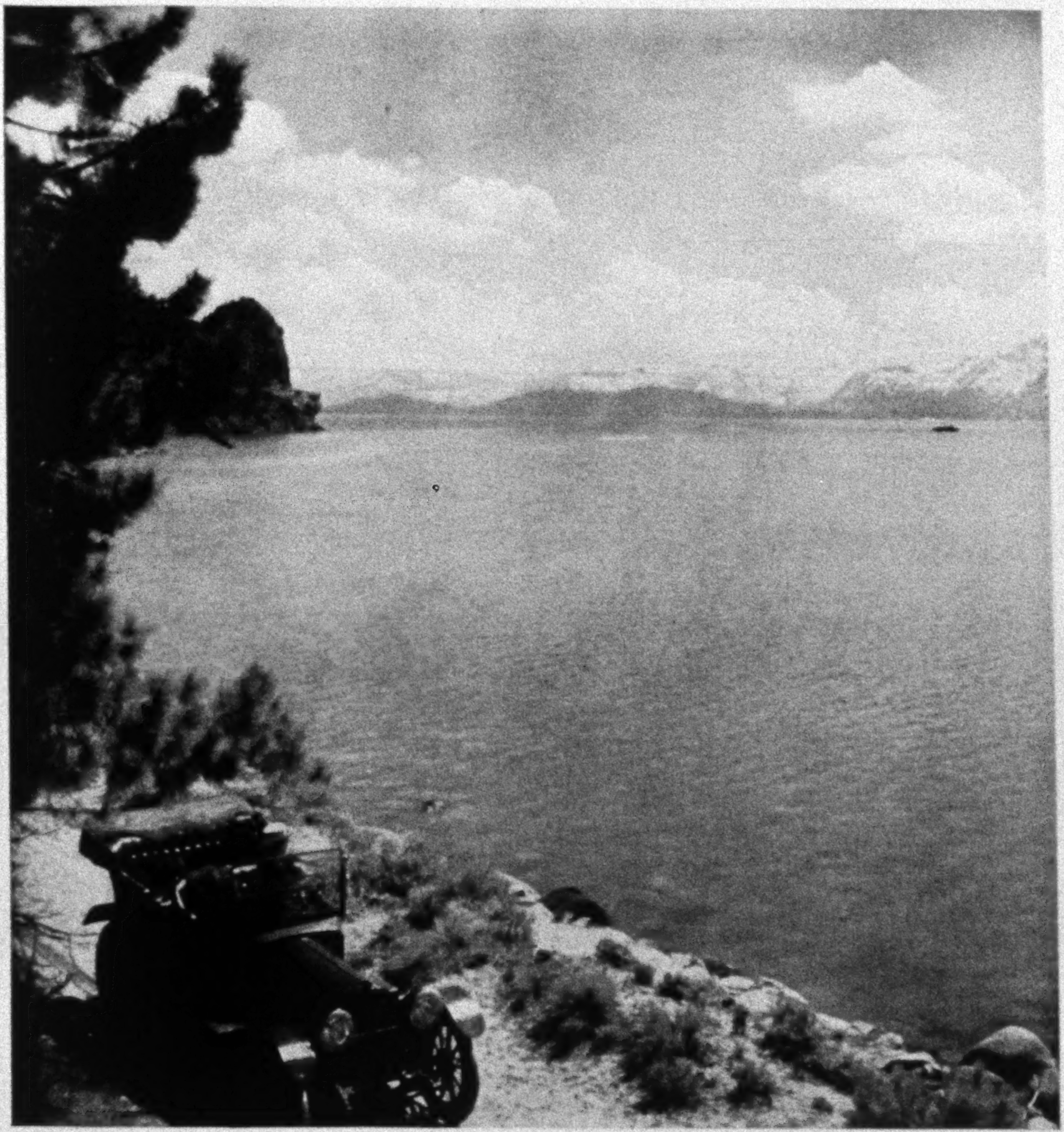
MAGNOLIA AVENUE: RIVERSIDE, CALIFORNIA

Riverside is known as the "orange capital," for from it are shipped more oranges than from any other distributing center in the world—5,000 carloads of oranges each year. Here were planted, nearly fifty years ago, the two navel orange trees, imported from Brazil, from which are descended all the seedless oranges of California.

and the King rivers, which contain scores of waterfalls and roaring streams, any one of which in Europe would draw many thousands of visitors annually. Many of the big yellow and red pines, of the juniper and cedar, eclipse the trees of Switzerland as completely as these pines are eclipsed by the giant redwoods.

And then, as to birds and flowers, the High Sierra so excel the Alps that there is no comparison. Never will the writer forget the melodies of the birds and the luxuriance of the meadows passed in the marches from Redwood Meadow to Mineral King, and then up over Franklin Pass; the fields of blue, red, yellow, orange, white, and purple flowers, all graceful and fragrant, or the divine dignity of the great Siberian Plateau, nearly 11,000 feet above the sea, and yet carpeted from end to end with blue lupine and tiny flowers.

From the educational point of view, the High Sierra so surpass the Alps that again no comparison can be made. In one day's ascent we observed fauna and flora to see the equivalent of which on the Atlantic coast we would have to make a journey of perhaps 1,500 miles. When we started in the morning we were hearing birds that correspond to the latitude of Charleston, S. C.; in a few hours we had traveled northward to Newfoundland and Labrador, and then descended to camp amid feathered friends whose counterparts are found around the writer's farm near Washington, D. C. A day later we ascended Mt. Whitney, the highest peak in the United States, and had a glimpse of birds of the Arctic Zone.

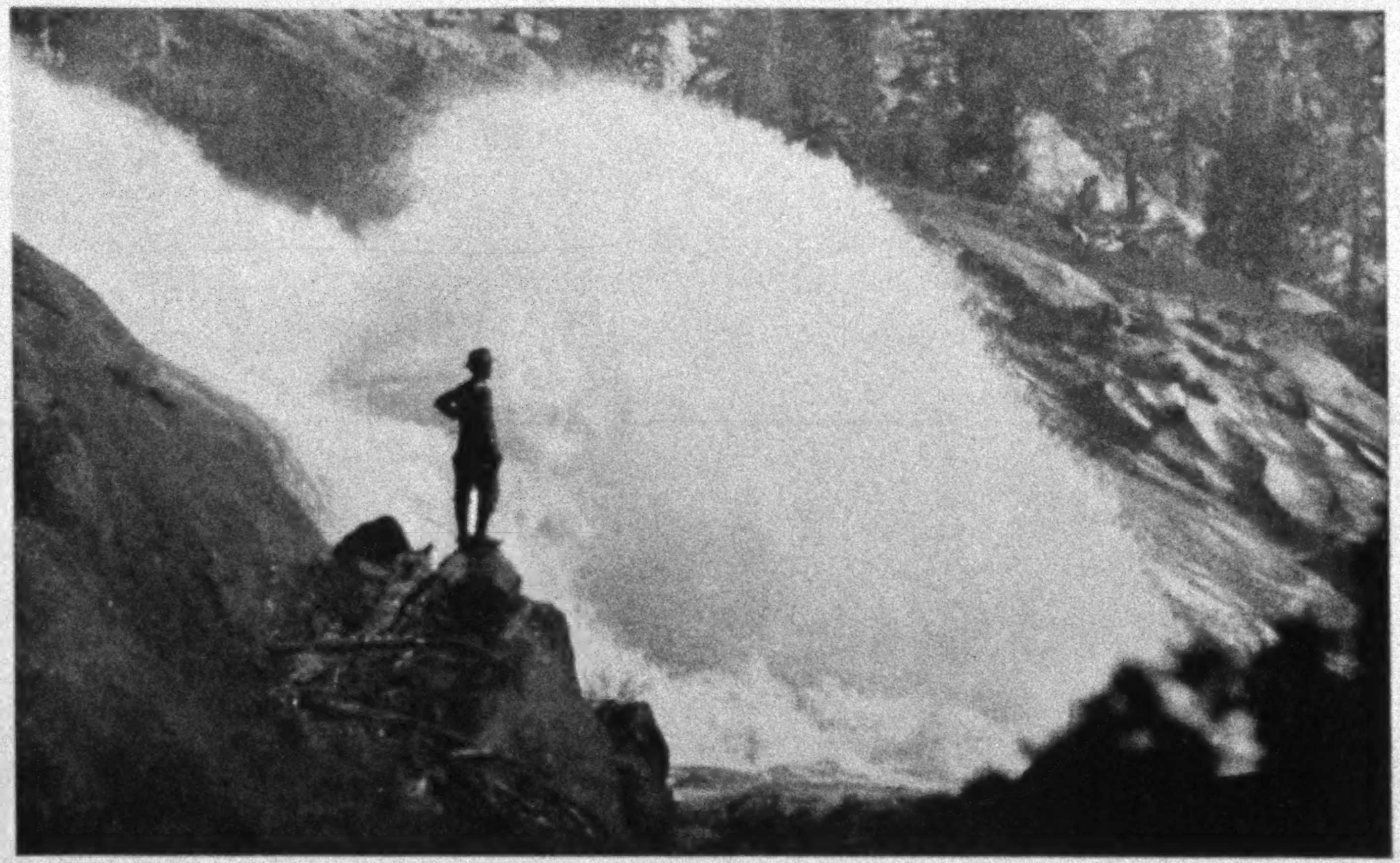


A VIEW OF LAKE TAHOE

Snow-capped mountains and lakes of every shade of blue are scattered throughout our great Northwest in wild profusion. Seeing one after another does not dull one's appreciation of them, however; it only exhausts one's vocabulary. We cross the ocean to see the much-advertised lakes of Scotland and Ireland, which, though picturesque, are eclipsed by scores of lakes in our own land from the Atlantic to the Pacific.

Within the boundaries of the Yosemite and Sequoia National Parks tower the oldest of living things—the *Sequoia gigantea* (see the supplement and pages 412, 414, and 415).

It is an unusual experience to stand under these big trees, to gaze upon their stately proportions, to reflect upon the storms and stress they have survived, and to visualize the strange changes in human history that have taken place since they were seedlings. Long before Moses had led the Children of Israel out of Egypt, long before his brethren had carried back to their father Joseph's bloodstained coat of many colors, long even before the birth of the patriarch whose children and whose children's children to the remotest generations the Most High promised to bless, even before the aged



Photograph by Pillsbury Picture Company

THE LOWER WATER-WHEEL FALL: TUOLUMNE RIVER CANYON, CALIFORNIA

The water, sweeping madly down the Tuolumne River, now and again strikes a spoonlike depression in the hard, sloping granite, which gives it an upward and circular whirl. At high water these astounding perpendicular whirlpools are fifty feet or more in diameter.

Pyramids had reared their heads on the banks of the Nile, long centuries before the Hanging Gardens of Babylon had been constructed, these trees had begun to grow.

Thousands of years the General Sherman tree has stood, offering its head to every passing thunder cloud; but so strong and sturdy is it that, like Ajax, it can defy the lightnings. John Muir gives us a graphic picture of a sequoia in a storm: "When the storm roars loudest, they never lose their godlike composure, never toss their arms or bow or wave like the pines, but only slowly, solemnly nod and sway, standing erect, making no sign of strife, none of unrest, neither in alliance nor at war with the winds, too calmly, unconsciously capable and strong to strive with or bid defiance to anything."

The sequoia is said to be one of the two surviving species of a once numerous genus which, before the Glacial Period, spread across the American continent and occupied Europe as well. The only other survivor is the redwood of the California coast (*Sequoia sempervirens*).

The wonders of the Yosemite National Park are easily accessible via the Yosemite Valley, where accommodations are provided for every degree of income. Desmond camps and excellent government trails enable the visitor to see the giant trees, water-wheels, and canyons, while the more adventurous, who desire to ascend Mount Lyell and its magnificent neighbors, will find entertainment in Tuolumne Meadows, at the hospitable headquarters of the Sierra Club, an organization of mountaineers who have revealed the Sierra to the world. The "General Sherman" tree is in the Sequoia National Park, reached by an automobile trip of 65 miles from Visalia.

Our national parks belong to the American people and are administered by the Department of the Interior. The Secretary, Franklin K. Lane, and the Assistant Secretary in charge of the parks, Stephen T. Mather, realize that as playgrounds for recreation and instruction

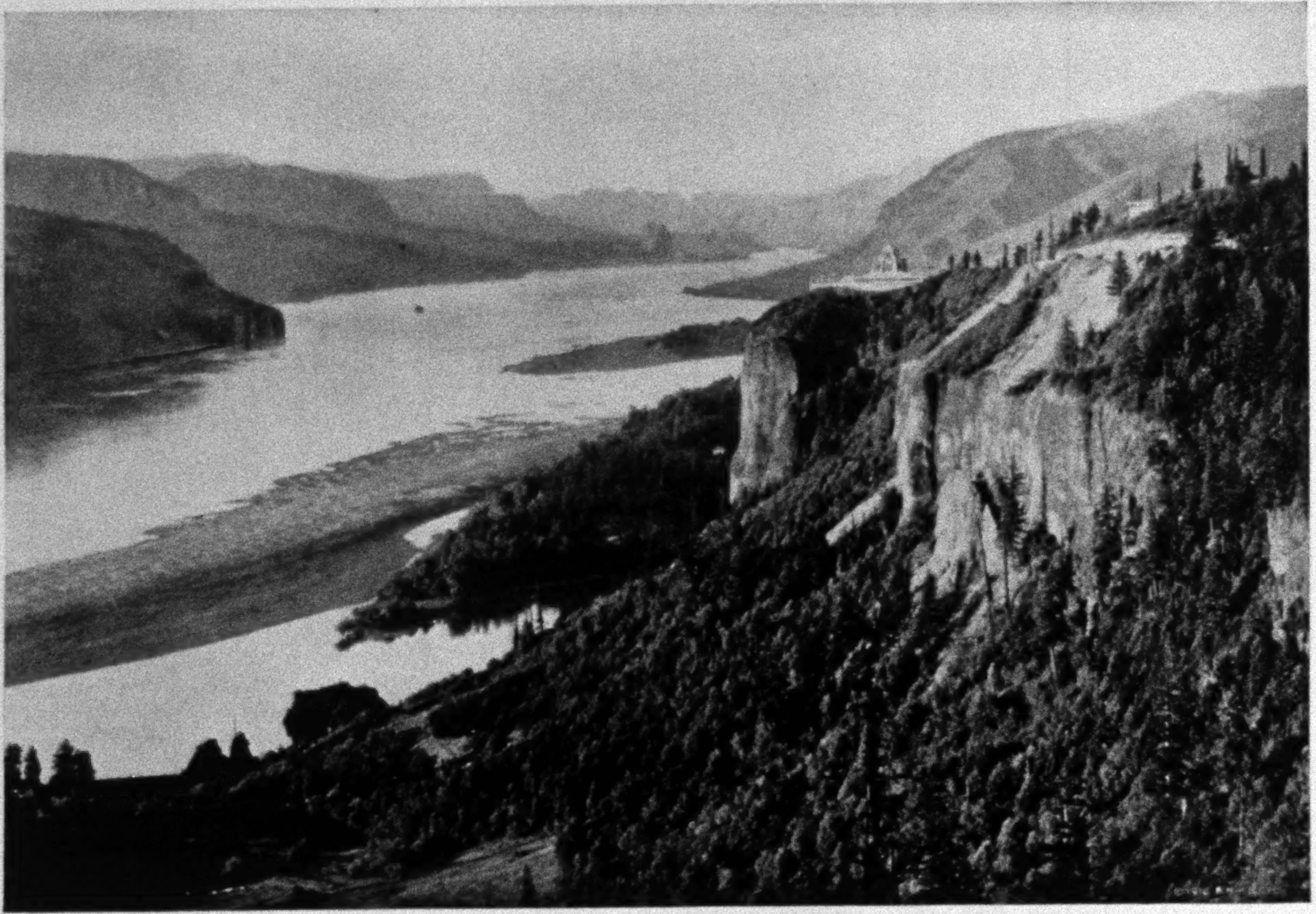
Photograph by Gilbert H. Grosvenor

IN THE OLYMPIC FOREST: WASHINGTON STATE

It is worth a trip across the continent just to see the monarchs of the forests of California, Oregon, and Washington. The coniferous forests of these States surpass all others of their kind in the world, not only in the size and beauty of the trees, but in the number of species assembled together and the grandeur of the mountains they are growing on. The placard on the tree is one of the Forest Service warnings about fire. "Observe *the six rules* for the prevention of *fires* in the *mountains. Rule One:* Be sure your match is out. Break it in two before you throw it away. *Rule Two:* Don't throw away burning tobacco. *Rule Three:* Make your camp-fire small and in a safe place. *Rule Four:* Put out your fire with water and then cover it with earth. *Rule Five:* Don't make large bonfires. *Rule Six:* If you find a fire, put it out. If it's too big, notify a ranger."

our national parks are without rivals on any continent, and are successfully striving to make them as available to our citizens as Italy and Switzerland have made theirs. Though the parks are remote from the Atlantic coast, they are not so distant as the playgrounds in Europe, and are reached by the tourist much more easily and quickly.

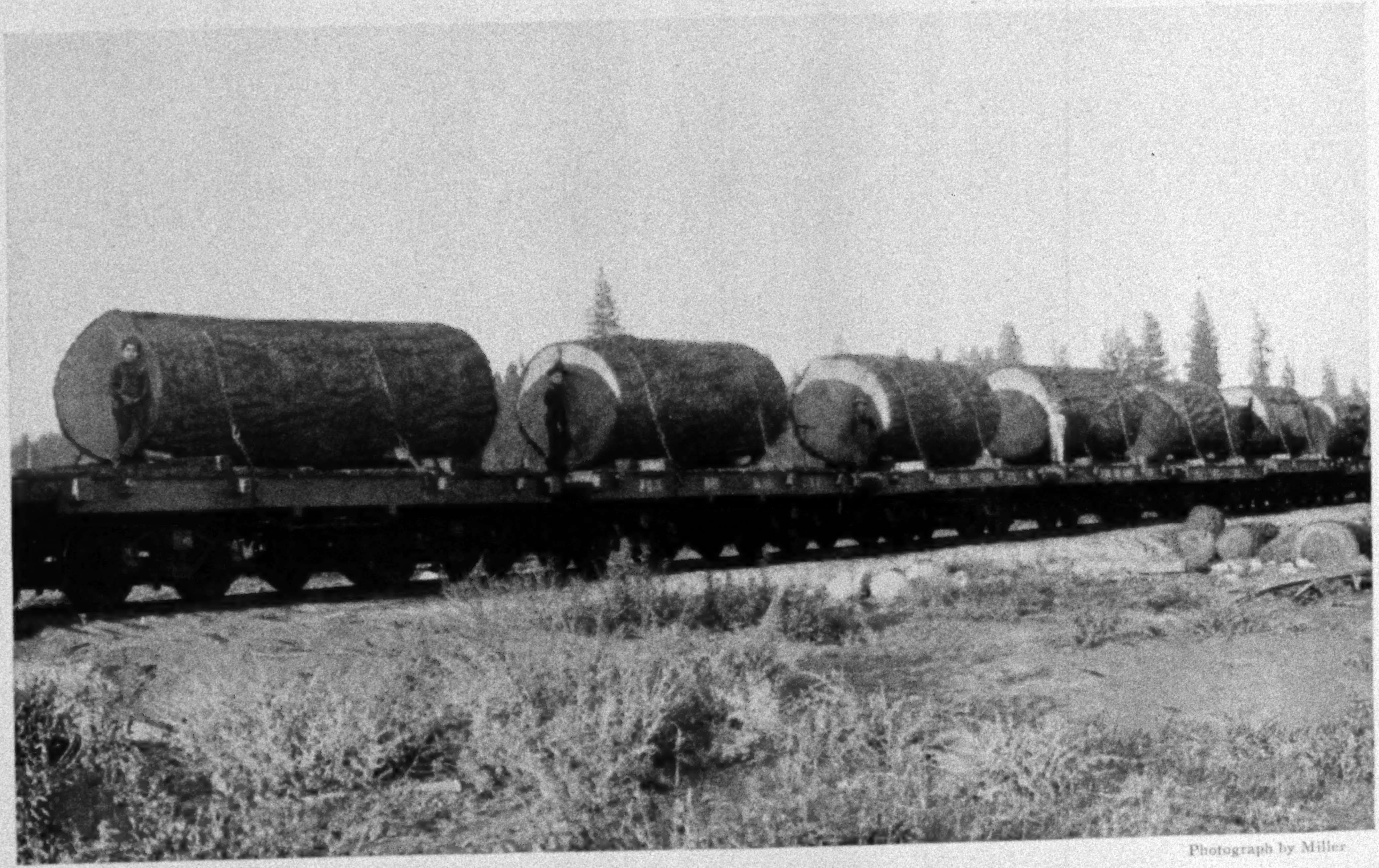
Our country is the treasure-house of nature's scenic jewels, containing so many and such an infinite variety of marvels that thousands of our matchless treasures cannot even be mentioned in this brief article: hot springs, as salubrious as any across the ocean; broad, hard, white beaches like the automobile course at Ormond, superior to any in Europe; coast scenes like those at Mount Desert, Marblehead, Mount Tamalpais, Santa Barbara, San Diego; an inland waterway which parallels the Atlantic coast and is almost continuous from Massachusetts to Florida, with possibilities for aquatic enjoyment unequaled except in our own wondrous Puget Sound; canals pictur-



Photograph by Fred H. Kiser

CROWN POINT, ON THE GREAT COLUMBIA RIVER HIGHWAY THROUGH THE CASCADE MOUNTAINS TO PORTLAND AND THE SEA

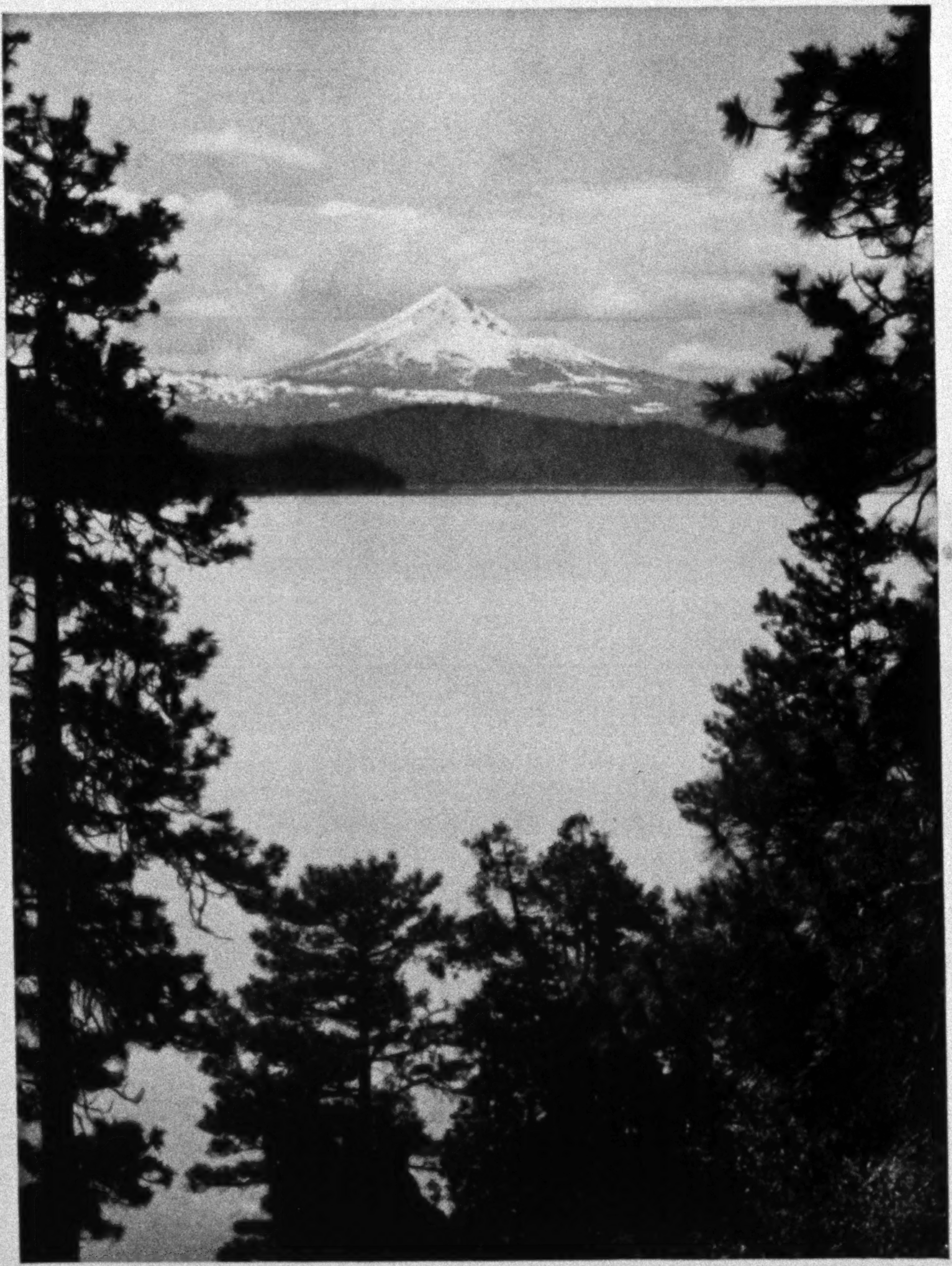
"The Columbia, viewed from the sea to the mountains, is like a rugged, broad-topped, picturesque old oak, about six thousand miles long and, measured across the spread of its upper branches, nearly a thousand miles wide; the main limbs are gnarled and swollen with lakes and lake-like expansions, while innumerable smaller lakes shine like fruit among the smaller branches."—JOHN MUIR (see also page 407).



Photograph by Miller

PART OF ONE DOUGLAS-FIR TREE

The great fir trees of the Northwest furnish a good proportion of the nation's lumber for structural uses. From these huge trunks enormous timbers, free from knots, are secured for bridge-building, derricks, and other engineering work. Planing mills use quantities of this lumber, and houses, freight cars, and ships are built of it. This tree would make over four miles of plank an inch thick and a foot wide.



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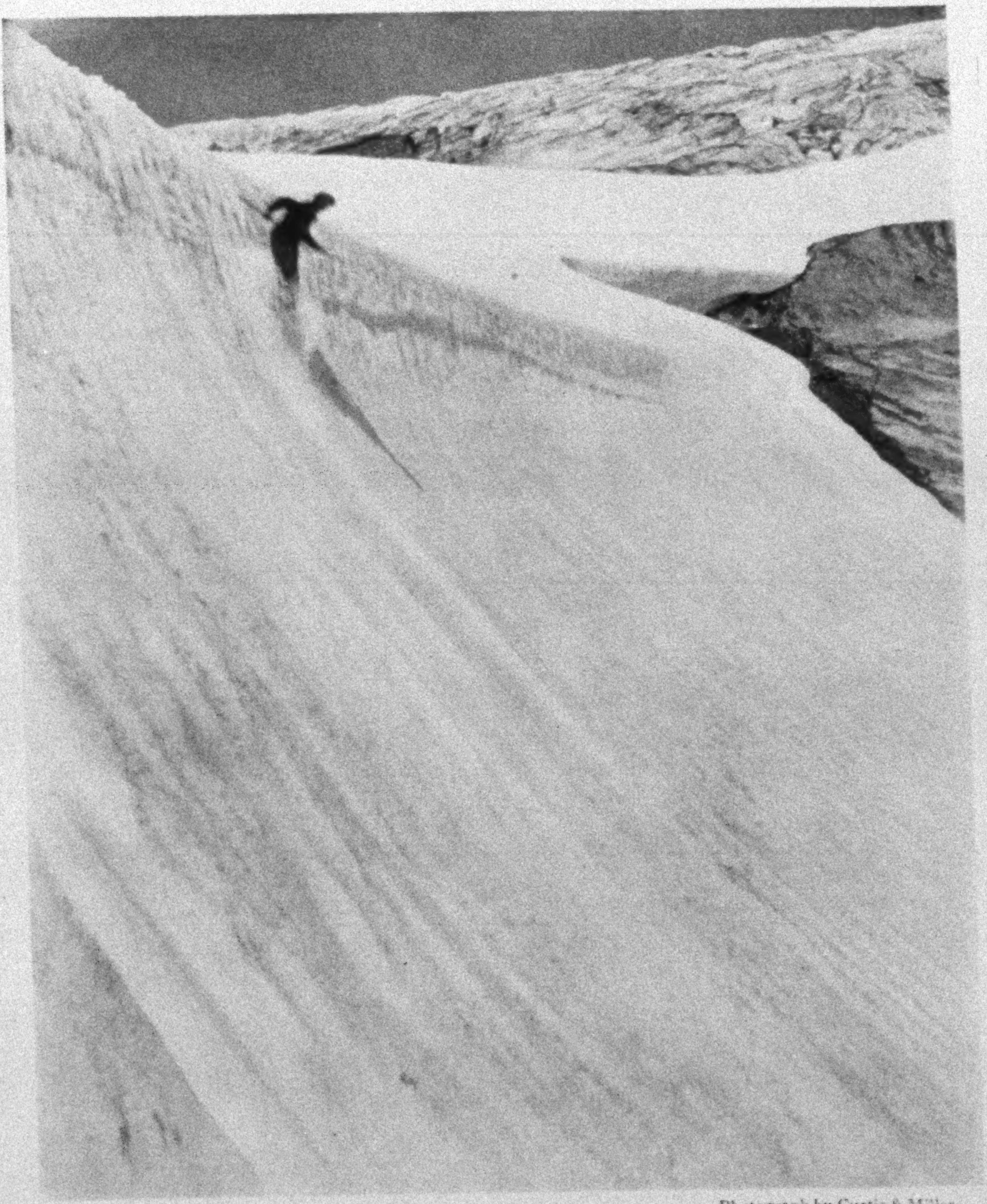
UPPER KLAMATH LAKE, OREGON, WITH MOUNT MC LOUGHLIN (OR MOUNT PITT) IN THE BACKGROUND

Upper Klamath Lake excels in the profusion and beauty of its water birds. Great snowy pelicans float about on its waters like graceful yachts. There are countless great blue herons, coots, snipe, mallards, kingfishers, and different varieties of ducks, all protected by the game laws of the State of Oregon, whose citizens long ago realized the large asset they had in their wild life and have protected it. Upper Klamath Lake is reached via Klamath Falls.



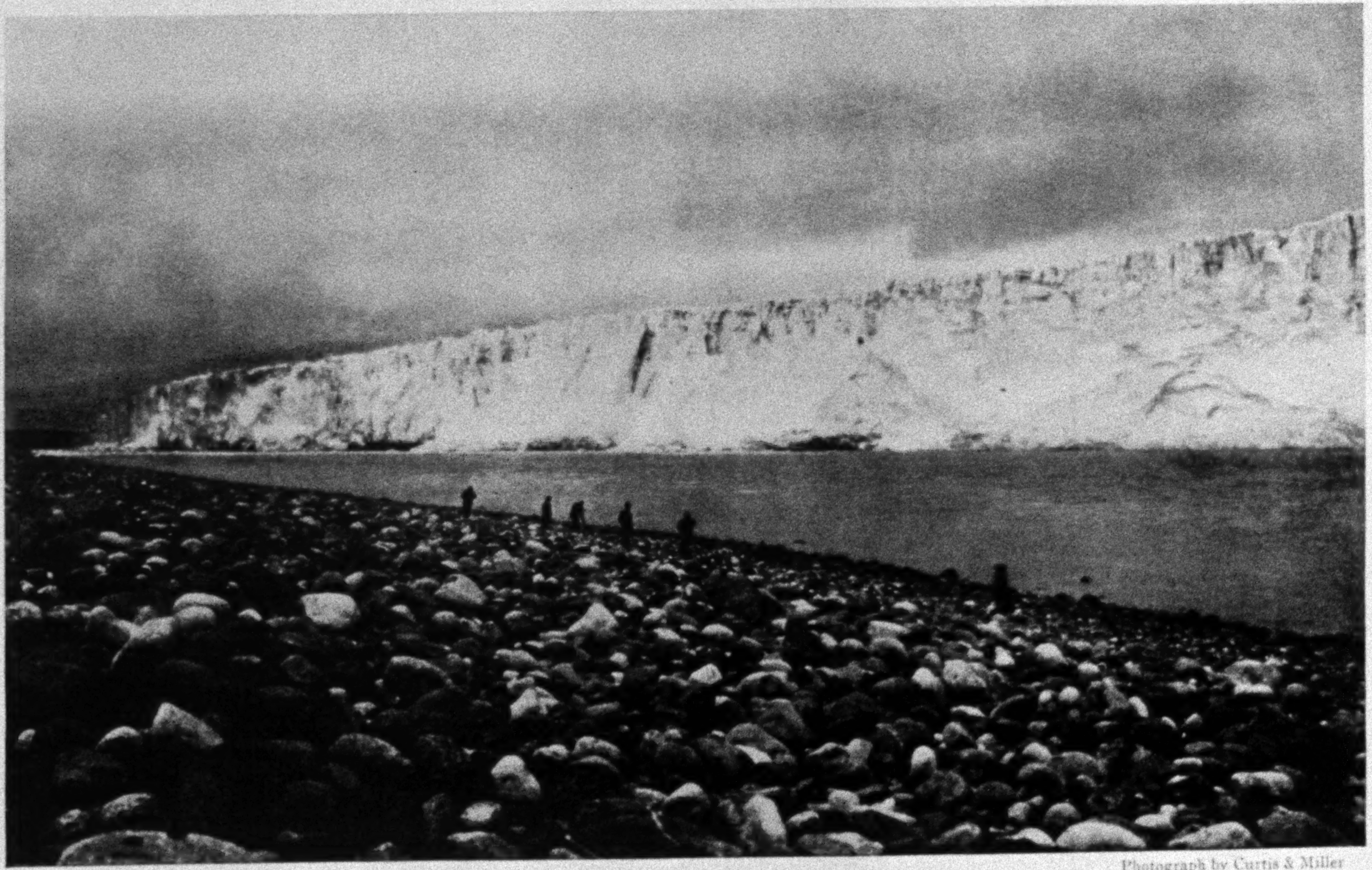
Photograph by Curtis & Miller

COASTING ON THE SNOW FIELDS OF RAINIER NATIONAL PARK, WASHINGTON

Photograph by Merl La Voy

COLUMBIA GLACIER: ALASKA

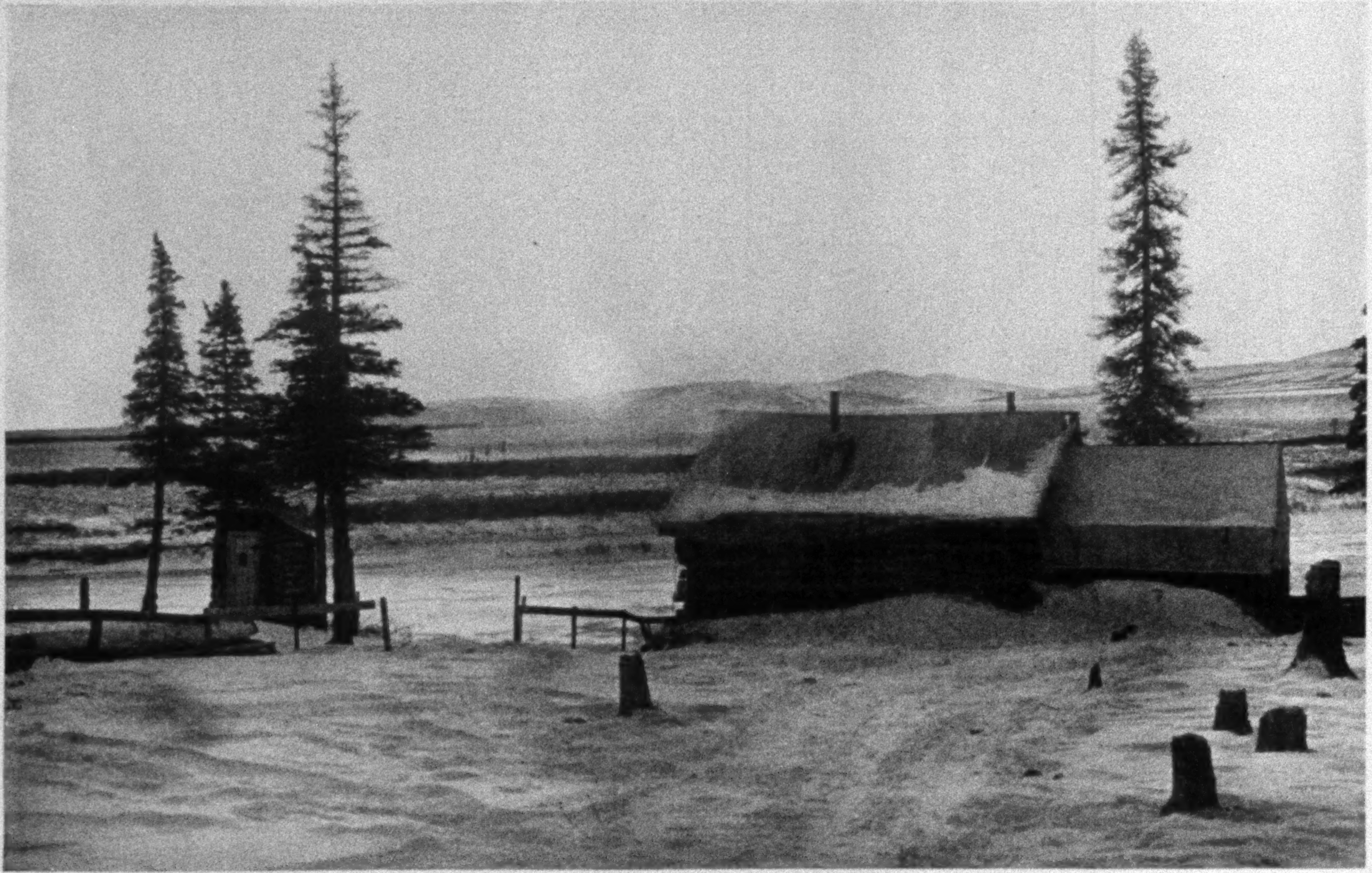
Norway contains no fiords or glaciers comparable with many in our own Alaska, nor Switzerland mountains as grand as Mount McKinley



Photograph by Curtis & Miller

A VIEW OF CHILDS GLACIER: ALASKA

Alaska's glaciers are the largest in the world outside of the polar regions



Photograph by Carl J. Lomen

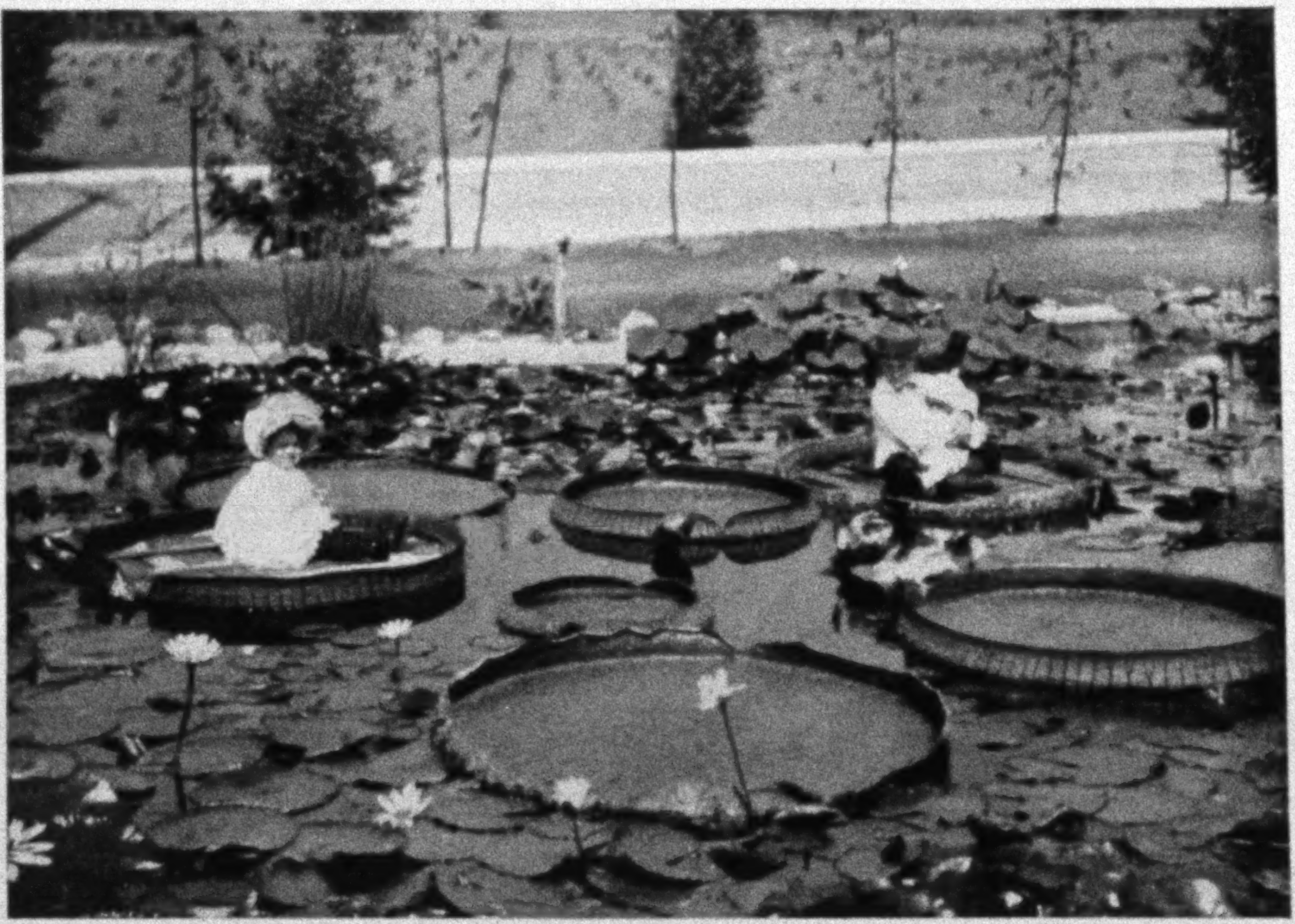
AMERICA'S "LAND OF THE MIDNIGHT SUN"

When Nature passed round her gifts to the nations, even a "land of the midnight sun" was not denied America; for in all that vast territory in Alaska lying north of Fort Yukon and the Seward Peninsula the sun never sets in the summer nor rises far above the horizon in winter. The picture shows its position at midnight in summer and at midday in winter.

Photograph by Curtis & Miller

MOUNTAINEERS DESCENDING MOUNT BAKER, WASHINGTON, ON AN ANCHORED LIFE-LINE

No one needs to go to Europe for mountain-climbing, for the United States can offer climbing of any desired degree of difficulty. And what a satisfaction to scale your own mountains instead of somebody's else!



Photograph by Putnam & Valentine

WATER-LILY POND AT HOLLYWOOD, CALIFORNIA

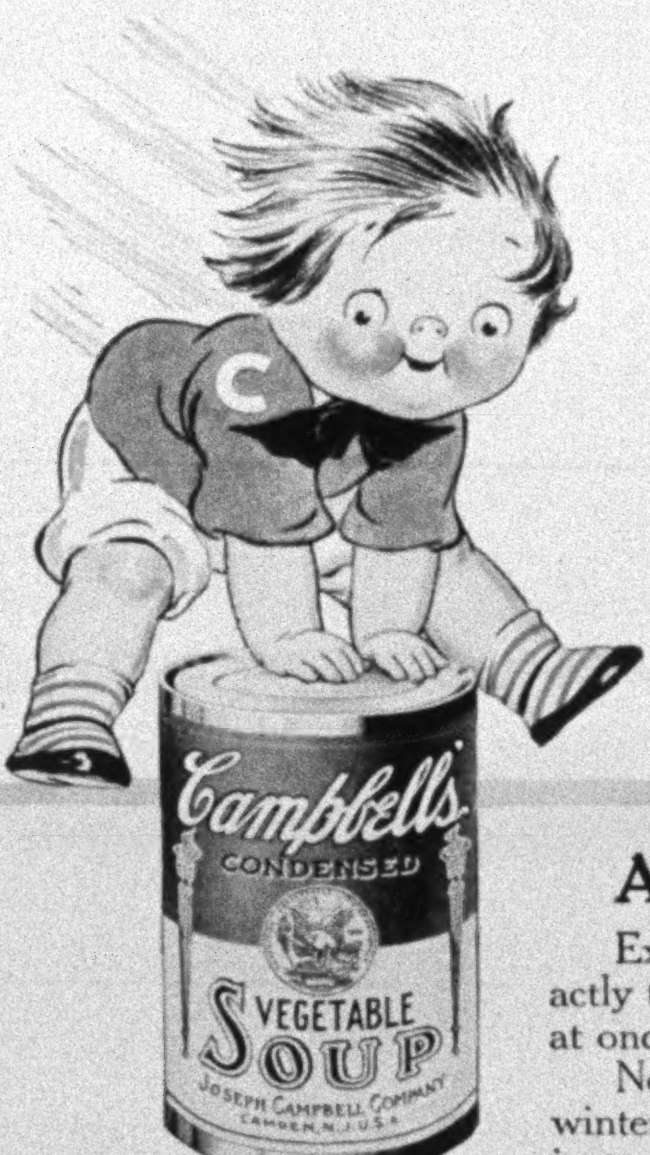
The boy on the right is also giving baby brother a "sail"

esque as any in Holland, such as the mountain gorges and blue-grass pastures of the Chesapeake and Ohio Canal from Washington to Cumberland, or the historic Mohawk Valley of the Erie Canal—a desert with colors as heavenly as those of the Sahara and, though devoid of picturesque camels and Arabs, adorned with the most extraordinary cacti and desert vegetation on earth, and studded with marvelous works of the human hand like Salt Lake City; great fresh-water lakes, on which you can take a voyage of one thousand miles on ocean liners; Alaska, possessing the grandest glaciers in the world outside the polar regions, fiords more impressive than Norway's, and mountains like Mt. McKinley, which towers nearly one mile higher than the loftiest peak in Europe.

Any of our readers could spend an entire lifetime seeing nature's masterpieces within our boundaries and not reach the end of the catalogue.

* * *

IN the Spring the young man's fancy
Lightly turns to thoughts of sport.
Then to make you spry and prancey
Food like this is just the sort.



A Spring Favorite—

Exactly the food you enjoy, and exactly the food your system calls for. Both at once.

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Campbell's Vegetable Soup

It supplies the strengthening qualities of good meat together with the tonic elements and vegetable salts that every one specially needs at this season.

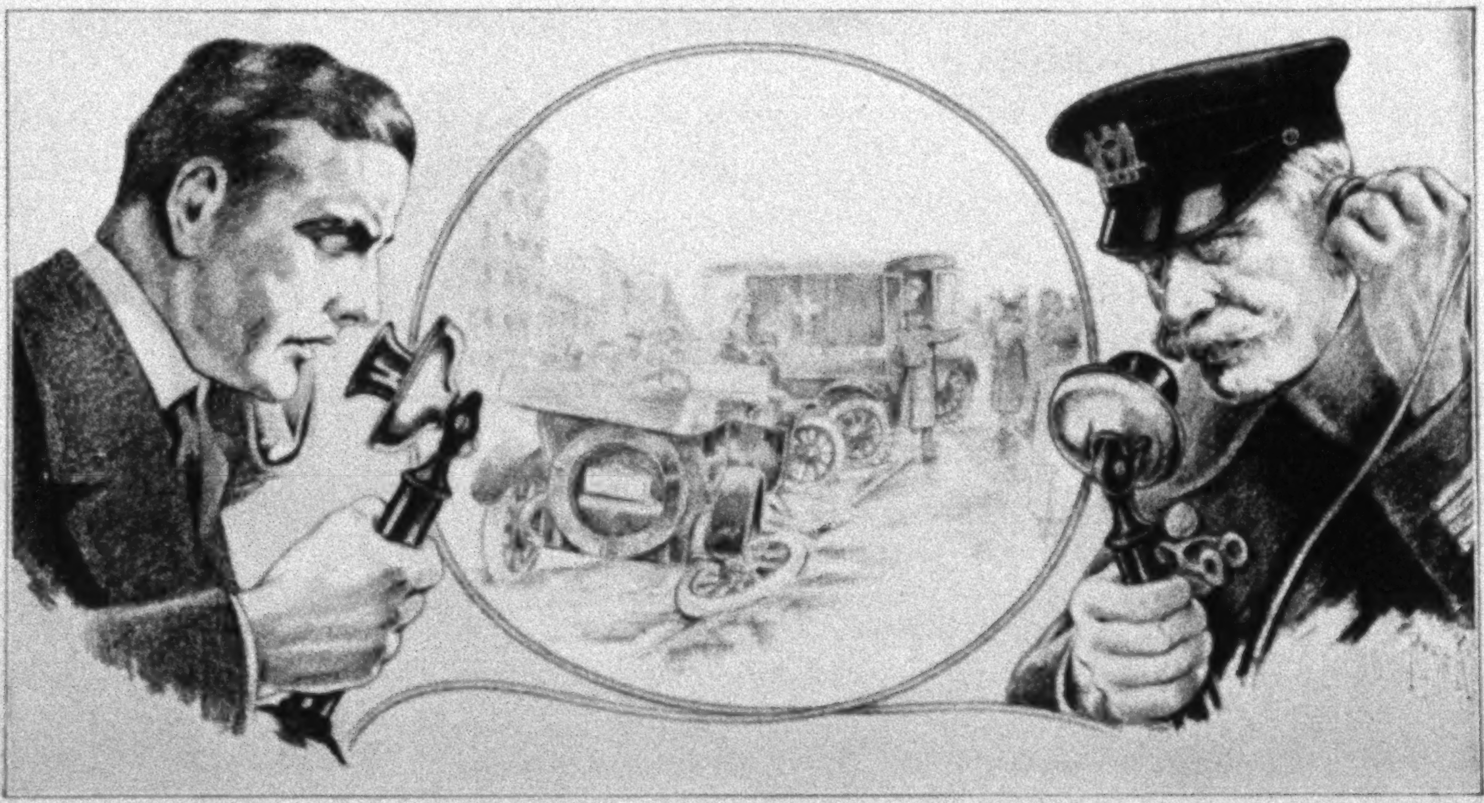
The strong, full-bodied stock is made from selected beef. In this stock we blend an abundance of choice vegetables—potatoes, carrots, yellow turnips, tomatoes, green okra and other fine vegetables—beside "alphabet" macaroni. The whole is flavored tastily with celery and parsley and just a touch of sweet red peppers to complete the appetizing zest.

Why not enjoy the regular benefit of this invigorating Campbell "kind" on your table? Order a few cans from your grocer and have some *today.*

21 kinds **10c a can**

Campbell's SOUPS

LOOK FOR THE RED-AND-WHITE LABEL



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"Yes! skidded—and it's up to you. You failed to provide the chauffeur with Tire Chains. Only good luck saved your wife from paying the supreme penalty for your negligence. She's on the way to the hospital, painfully injured, but the doctor thinks she'll pull through. You'd better hurry to the hospital and then report to Headquarters".

How strange it is that disaster must come to some men before they realize that all makes and types of tires will skid on wet pavements and muddy roads when not equipped with Chains.

These men do not appreciate, until too late, that by failing to provide Weed Anti-Skid Chains they expose their families to injury and death.

The time to provide against accidents is before they happen. Don't wait until after the first skid. Put Weed Chains on all four tires at the first indication of slippery going and you will have quadruple protection against injury, death, car damage and law suits.

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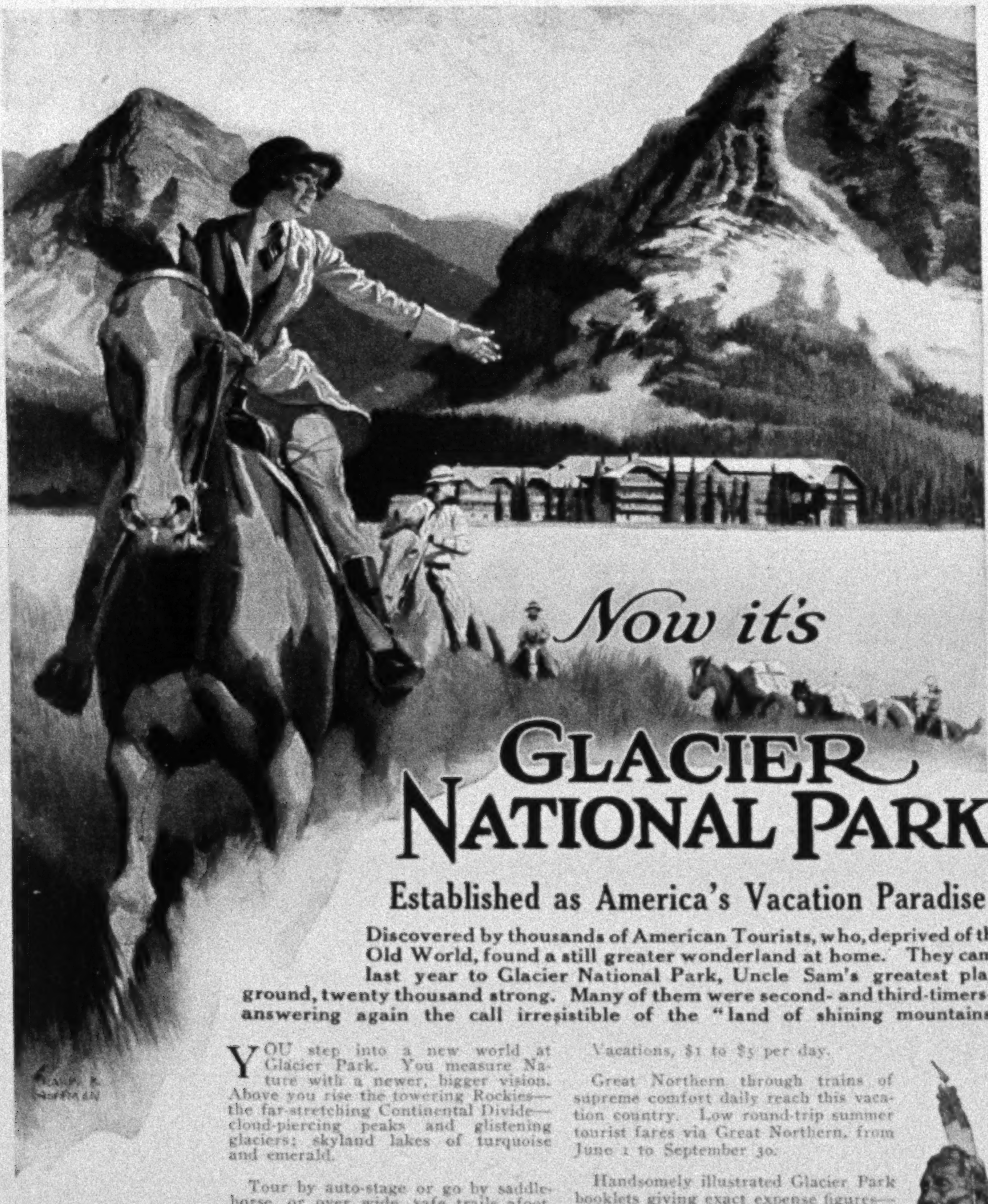

Now it's

GLACIER NATIONAL PARK

Established as America's Vacation Paradise

Discovered by thousands of American Tourists, who, deprived of the Old World, found a still greater wonderland at home. They came last year to Glacier National Park, Uncle Sam's greatest playground, twenty thousand strong. Many of them were second- and third-timers—answering again the call irresistible of the "land of shining mountains."

YOU step into a new world at Glacier Park. You measure Nature with a newer, bigger vision. Above you rise the towering Rockies—the far-stretching Continental Divide—cloud-piercing peaks and glistening glaciers; skyland lakes of turquoise and emerald.

Tour by auto-stage or go by saddle-horse, or over wide, safe trails afoot. Stop at splendid modern hotels or Swiss chālets, or live in a tepee; cook your own meals.

Vacations, $1 to $5 per day.

Great Northern through trains of supreme comfort daily reach this vacation country. Low round-trip summer tourist fares via Great Northern, from June 1 to September 30.

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A Proven Mechanism

The New and Greater

CHANDLER SIX

THE new Chandler bodies, the most beautiful of the season's offerings, are attractive indeed. The New York and Chicago Show crowds admired, and purchased in great numbers, the new Chandler touring car and the new four-passenger roadster. At all the shows the country over, the New and Greater Chandler has been the center of greatest attenion.

But the vital reason why so many thousands of motor-car buyers are choosing the Chandler is the established and known excellence of the Chandler chassis—the Chandler mechanism.

In every essential way it is the same chassis on which, for three years, all Chandler bodies have been mounted. THERE IS NOT A SINGLE HINT OF EXPERIMENTATION.

"The Marvelous Motor," built in the Chandler factory ever since this Leader of Light Sixes was first put on the market, has won its laurels and *still holds them.*

It has always been powerful—powerful enough to do with ease anything that you could ask any automobile to do.

It has always been speedy—speedy enough to go faster than 999 out of every thousand car owners would ever want or dare to drive.

It has always been flexible—slowing down to a snail's pace on high, and jumping away instantly at the touch of the throttle.

It has always been economical in operation—owners *averaging* 16 miles per gallon of gasoline, 700 miles per gallon of oil, and 7,000 miles per set of tires.

For three years it has had, and today has in even greater degree than ever before, *all* of these qualities you rightly demand in a high-grade motor car.

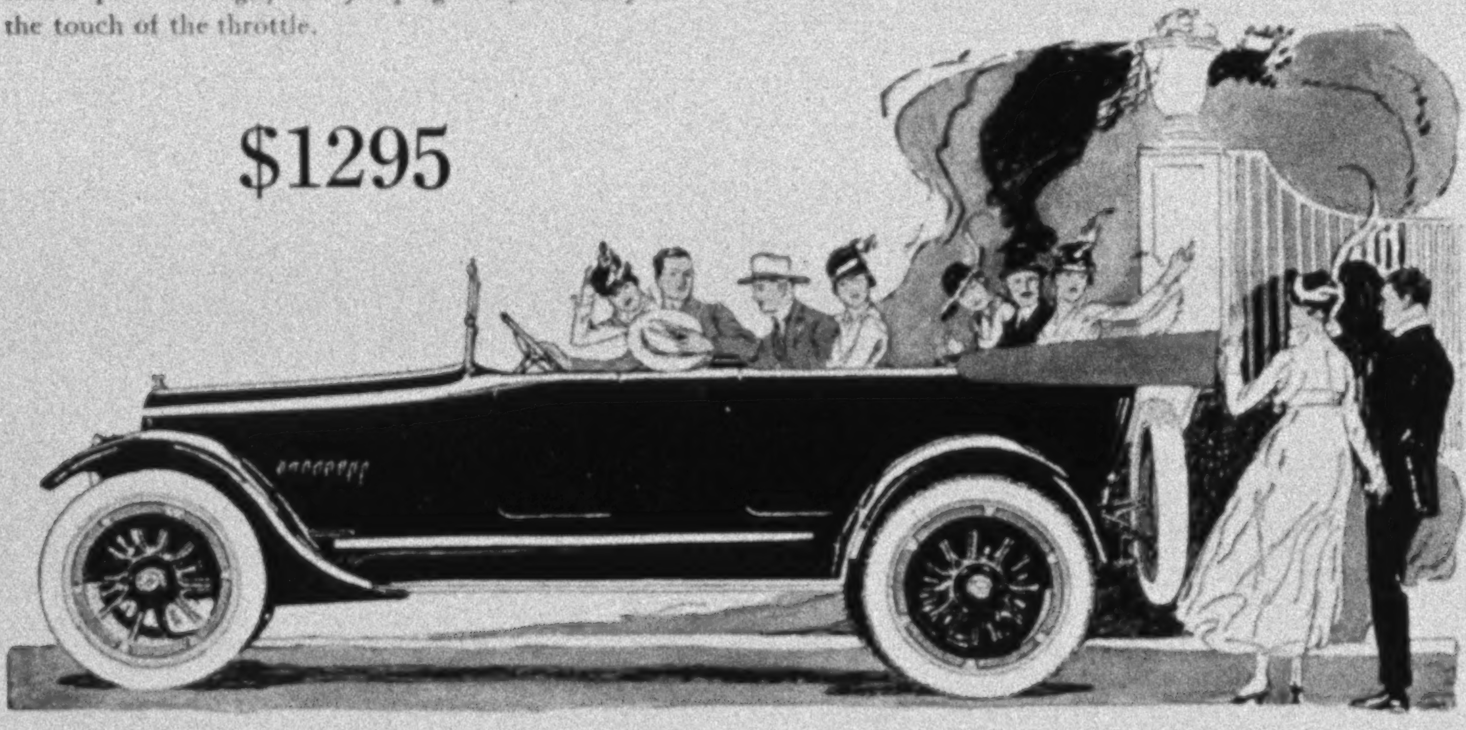
It is a *known quality.*

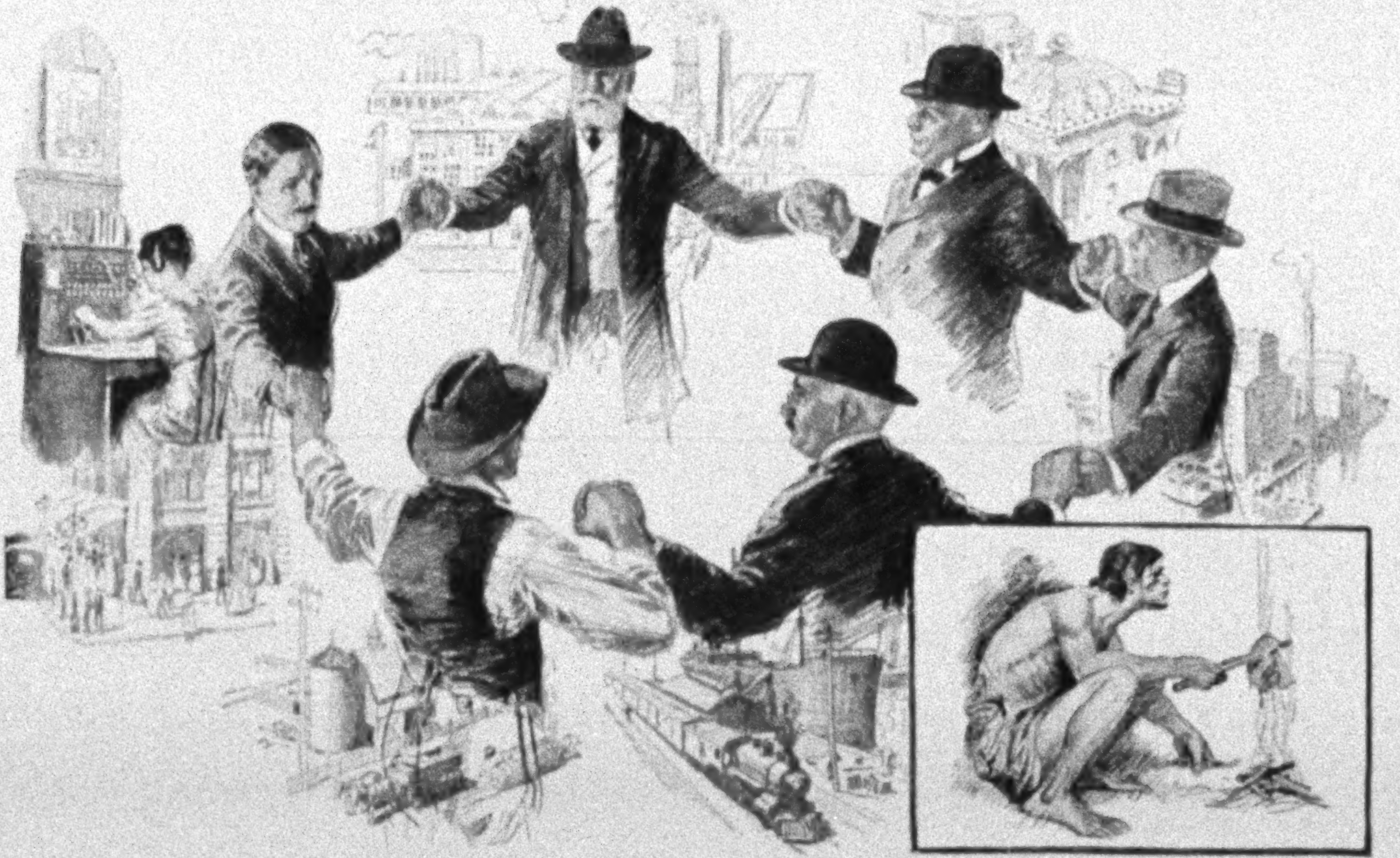
And, more than ever in the past, automobile buyers this year recognize the security of dealing in known quantities.

The new catalogue illustrates the seven-passenger touring car, the four-passenger roadster, other body types, and all the mechanical features.

CHANDLER MOTOR CAR CO.
1404-1434 E. 131st St., Cleveland, Ohio
New York Office, 1886 Broadway
Cable Address, Chanmotor

$1295





Cave Life or Civilization

Civilized man is distinguished from the cave man by his habit of co-operation.

The cave man lived for and by himself; independent of others, but always in danger from natural laws.

To the extent that we assist one another, dividing up the tasks, we increase our capacity for production, and attain the advantages of civilization.

We may sometimes disregard our dependence on others. But suppose the farmer, for example, undertook to live strictly by his own efforts. He might eke out an existence, but it would not be a civilized existence nor would it satisfy him.

He needs better food and clothes and shelter and implements than he could provide unassisted. He requires a market for his surplus products, and the means of transportation and exchange.

He should not forget who makes his clothes, his shoes, his tools, his vehicles and his tableware, or who mines his metals, or who provides his pepper and salt, his books and papers, or who furnishes the ready means of transportation and exchange whereby his myriad wants are supplied.

Neither should he forget that the more he assists others the more they can assist him.

Take the telephone specialists of the Bell System: the more efficient they are, the more effectively the farmer and every other human factor of civilization can provide for their own needs and comforts.

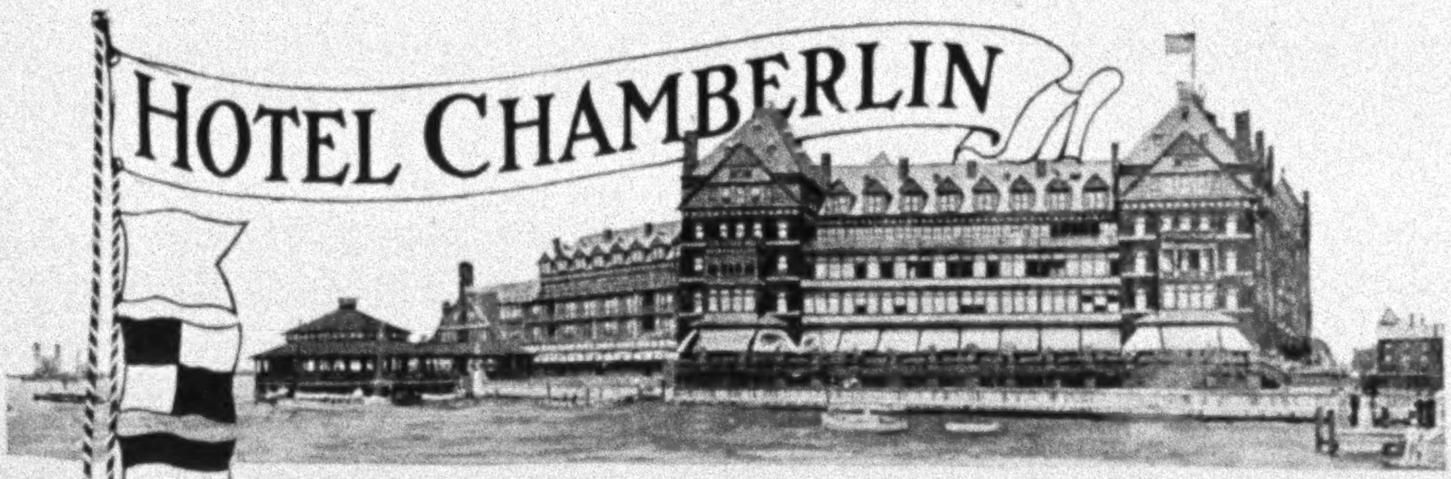
Or take our government, entrusted with the task of regulating, controlling and protecting a hundred million people. It is to the advantage of everyone that the government shall be so efficient in its special task that all of us may perform our duties under the most favorable conditions. Interdependence means civilized existence.

AMERICAN TELEPHONE AND TELEGRAPH COMPANY

AND ASSOCIATED COMPANIES

One Policy *One System* *Universal Service*

HOTEL CHAMBERLIN



NO European "Cure" surpasses and few compare with this luxurious American Resort Hotel—so wonderfully situated in the midst of a happy combination of land and sea diversions.

From North and South, East and West, gather the guests of Hotel Chamberlin to "Take 'The Cure' "; others get well by using Nature's remedies alone—the Sun, the Sea, the Salt Sands.

Golf, Tennis, Swimming, Riding and Motoring await the devotees of these sports.

The Cuisine of Hotel Chamberlin is famous—the finest sea-foods in the world are found in the waters around Old Point Comfort.

But perhaps the most fascinating side of all is the Social Life, for here the Army, the Navy, and Society mingle as nowhere else on this continent.

For illustrated booklets, apply at all Tourists Bureaus, Transportation Offices, or address

GEO. F. ADAMS, MGR., FORTRESS MONROE, VIRGINIA.

NEW YORK OFFICE: THE BERTHA RUFFNER HOTEL BUREAU, McALPIN HOTEL.

Niagara to the Sea

Shooting the Rapids

THE most satisfying trip in America for health and recreation. 800 miles of lakes, rivers and rapids, including the Thousand Islands, the exciting descent of the marvelous rapids, the historic associations of Montreal, Quaint old Quebec, and the famous Saguenay River, with its stupendous Capes, "Trinity" and "Eternity."

Up-to-date Canada Steamship Hotels at Murray Bay and Tadousac, Quebec.

Send 6c postage for illustrated booklet, map and guide, to John F. Pierce, Assistant Passenger Traffic Manager, 107 R. & O. Bldg., Montreal, Canada.

CANADA STEAMSHIP LINES

Every breeze an ocean breeze

Cape Cod

A rare combination of shore and country joys—the summer life you've longed for.

Vacation Delights

Daily plunges in sea or inland lake; fishing; cruising in "Cape cat" or motorboat; golf on links overlooking the sea.

Broad, shelving beaches, where children may run and splash in the warm, safe shallows. Superb roads for motoring.

"Quaint Cape Cod" or **"Buzzards Bay,"** illustrated booklets; write Vacation Bureau, Room 463, 171 Broadway, N. Y.

New York, New Haven & Hartford Railroad

Bull Dog Garden Hose Lasts Longest

DID you ever use a garden hose 15 years? Here is a man who did—Read his letter—

> Boston, Mass., August 12, 1915.
>
> Gentlemen:—
>
> "Some 15 years ago when I started housekeeping I bought a 50-ft. length of 'Bull Dog' hose. Last year I discarded it and bought another hose which was recommended to me by a salesman in a local store and which I have now had about a year. This new hose has given out in several places so that it is practically worthless and I need a new one.
>
> **"I should like very much to get another length of 'Bull Dog.' Can you fix me up by sending me a 50-ft. length?"**
>
> *(Name on Request)*

Garden hose seldom wears out—it usually dies and falls to pieces. "Bull Dog" hose lasts longest because there is plenty of live rubber in it.

"Bull Dog" 7-Ply Garden Hose

Made 5/8 in. with 3/4 in. connections—18c a foot—in 25 and 50 ft. lengths

If a popular price hose is desired, our Good Luck brand at 10c a ft. is your best selection. It is the popular priced expression of the "Bull Dog" standard. There is no better hose at the price.

Your hose will serve you best when equipped with a "Boston" Spray Nozzle. It is easy to use, cannot get out of order and gives you a shower, spray or mist. 50c at your dealer's.

Our practical booklet "How to Make Your Garden Grow" is full of helpful suggestions. Send 4c to Dept. N.

Boston Woven Hose & Rubber Company
The World's Largest Manufacturers of Garden Hose
Cambridge, Mass.

B2 *Order from us direct if your dealer does not sell our hose.*

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ORANGE PEKOE
TEA
DWINELL-WRIGHT CO.
BOSTON-CHICAGO
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COFFEE
DWINELL-WRIGHT
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WHITE HOUSE COFFEE

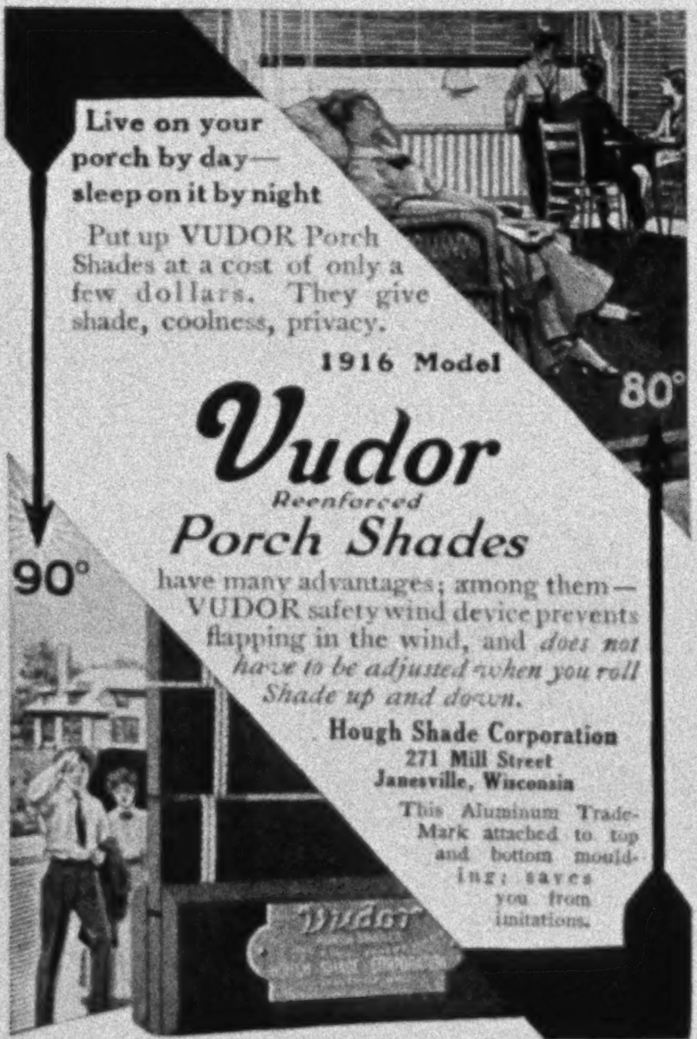
never disappoints

Packed under the most perfect sanitary conditions.

Sold in all the States, Bermuda, Mexico and Canadian Provinces.

The WHITE HOUSE Brand TEA, ¼-lb. and ½-lb. full-weight tins, is just as good as White House Coffee.

DWINELL-WRIGHT CO., *Principal Coffee Roasters,* BOSTON—CHICAGO.



Live on your porch by day—sleep on it by night

Put up VUDOR Porch Shades at a cost of only a few dollars. They give shade, coolness, privacy.

1916 Model

Vudor

Reenforced

Porch Shades

have many advantages; among them—VUDOR safety wind device prevents flapping in the wind, and *does not have to be adjusted when you roll Shade up and down.*

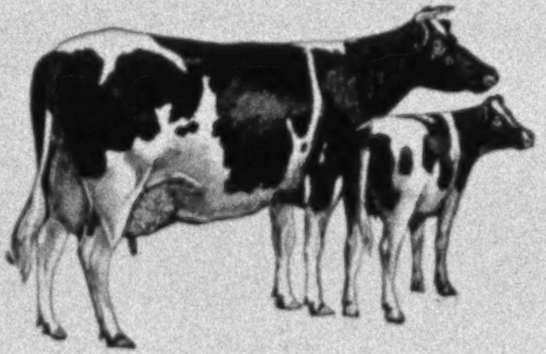
Hough Shade Corporation
271 Mill Street
Janesville, Wisconsin

This Aluminum Trade-Mark attached to top and bottom moulding; saves you from imitations.

Holstein Cows' Milk and the State Requirements

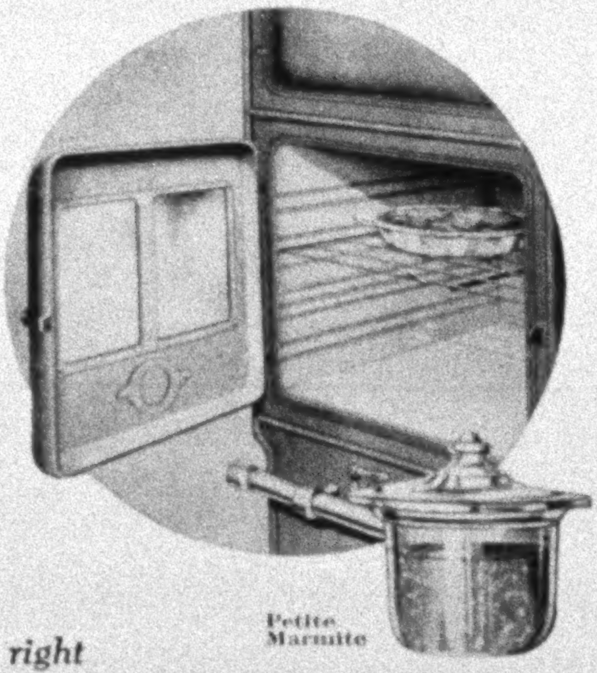
The efforts of State Boards of Health to protect the public with regard to its milk supply are commendable, but in many localities the milk standards adopted are absolutely contrary to the actual truth, as proven repeatedly by food chemists and physicians. In some States milk standards have been enacted into law which totally disregard the fact that it is the proteids, the flesh, strength, and muscle-building qualities of milk, which are desirable, as well as the fat content. Pure-bred Holstein cows' milk, possessing the great and indispensable food-values, "proteids," in superior quantity and being low in fat percentages, is oftentimes discriminated against by ill-advised laws and people who do not know, and **yet it is acknowledged by experts to be the milk best fitted for mankind.**

Ask your milk man for Holstein cows' milk. If he fails to provide you, send us his name and we will try to secure a supply for you. Send for our new free illustrated booklet, "The Story of Holstein Milk."



HOLSTEIN-FRIESIAN ASSOCIATION OF AMERICA
F. L. HOUGHTON, Secretary,
6-F American Building, BRATTLEBORO, VT.

A new material has come into the world



Petite Marmite

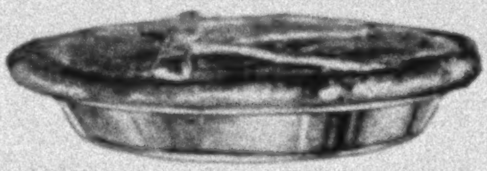
By means of this important discovery food is now baked in transparent glass dishes so durable that the hottest oven will not break them. This glass transmits heat so perfectly that the food bakes faster and more uniformly, holds its flavor better and ***does not burn.***

The progress of the baking can be seen right through the dish.

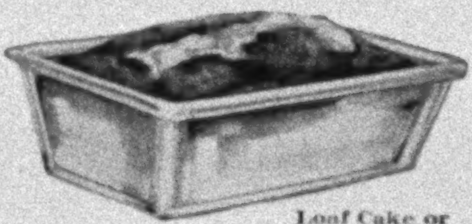
This practically does away with guess-work. The quick baking saves time and fuel. It makes a noticeable difference in your gas bill where gas is used.

Pyrex dishes do not chip, craze nor flake—This eliminates a serious danger. They do not absorb grease nor odors. They are not affected by acids nor alkalis. They are tough and stand rough handling, and are easily washed, as food does not stick nor burn on, and every speck is seen at a glance.

The use of Pyrex insures a sense of absolute cleanliness and efficiency.



Pie Plate

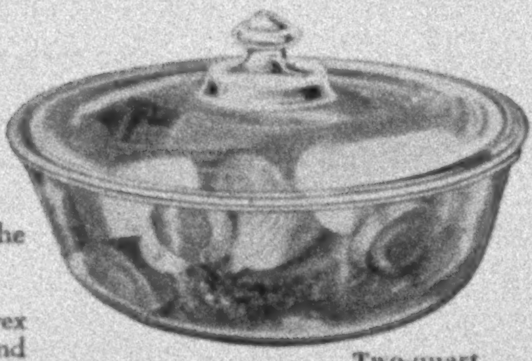


Loaf Cake or Bread Dish

PYREX

Glass Dishes for Baking

The only glass that does not break in the oven



Two-quart Casserole

A large variety of shapes and sizes, ranging in price from the Ramekins at 12½c to the large Casserole at $2.

Suitable mountings are now obtainable through dealers.

Ask your department, china or hardware store to get these Pyrex Glass Dishes for you—or write to any of the following stores and they will supply you:

Gimbel Bros., Lewis & Conger, New York; Marshall Field & Co., Chicago; Gimbel Bros., Wright, Tyndale & Van Roden, Philadelphia; Famous & Barr, St. Louis; Jordan Marsh Co., Graham & Streeter, Boston; Emporium, San Francisco; Maison Blanche, New Orleans; Hochschild, Kohn, Baltimore; Frederick Loeser, Brooklyn; Wm. Hengerer, Buffalo; John Shillito, Cincinnati; Geo. H. Bowman, Cleveland; Schoedinger-Marr, Columbus; Rike-Kumler, Dayton; Denver D. G. Co., Denver; Harris-Emery, Des Moines; J. L. Hudson, Detroit; H. C. Meacham, Fort Worth; Brown & Thompson, Hartford; L. S. Ayres, Indianapolis; Emery-Bird-Thayer, Kansas City; Bullock's, Los Angeles; Stewart D. G. Co., Louisville; Gimbel Bros., Milwaukee; L. S. Donaldson, Minneapolis; Lebeck Bros., Nashville; L. Bamberger, Newark; Edward Malley, New Haven; Kerr D. G. Co., Oklahoma City; Orchard & Wilhelm, Omaha; Quackenbush, Paterson; Block & Kuhl, Peoria; Joseph Horne, Pittsburgh; Olds, Wortman & King, Portland; Shepard Co., Providence; Dives, Pomeroy & Stewart, Reading; Miller & Rhoads, Richmond; Sibley, Lindsay & Curr, Rochester; Keith-O'Brien, Salt Lake City; Frederick & Nelson, Seattle; Crescent, Spokane; Schunemann & Evans, St. Paul; Dey Bros., Syracuse; Hudson's Bay Co., Vancouver; Woodward & Lothrop, Washington; Hudson's Bay Co., Winnipeg; Clark-Sawyer, Worcester.

CORNING GLASS WORKS Established 1868 CORNING, N. Y., U. S. A.

The Finishing Touch—

This is the first time our announcement has appeared in the National Geographic Magazine. We are taking this step because of the unusual character of its circulation. We believe we have a message of particular interest to its readers.

MONARCH METAL WEATHER STRIPS

may be said to be the finishing touch that marks the perfection and completeness of a house and secures the maximum of comfort for its occupants. This equipment is as well qualified to be so called as your decorations or furnishings.

Monarch Metal Weather Strips seal windows and doors against wind, rain, snow, and cold. By preventing the ingress of dust and soot they promote health and protect furnishings and hangings—save the expense of frequent cleaning. By eliminating drafts they increase comfort and reduce the cost of winter heating from 20 to 40 per cent.

Licensees or their representatives everywhere, who will call on you by appointment and give demonstration and estimate of cost of installation without any obligation on your part.

MONARCH METAL WEATHER STRIP CO.

4127 Forest Park Boulevard, St. Louis, Mo.

Write us for FREE Booklet giving further facts about
MONARCH STRIPS

The MONROE

A Refrigerator of Supreme Quality

Ideal refrigeration requires 100% perfection in FOUR POINTS:

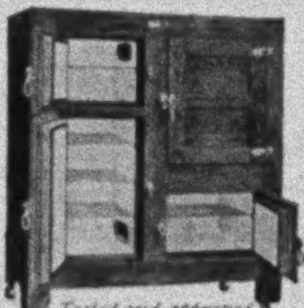
(*1*) ***Cleanliness.***
(*2*) ***A scientifically correct Circulation of dry air.***
(*3*) ***Coldness—or low temperature.***
(*4*) ***Ice Conservation.***

Some refrigerators have a high percentage in some of these points. But the high average in *all four points* goes to the

"MONROE" Refrigerator

Cleanliness is assured by the "Monroe's" solid, one-piece porcelain food compartments—all corners rounded. No metal to corrode. No enamel to chip. Not a single crack, crevice or corner to harbor dirt or germs. Easy to clean and keep clean. Circulation of cooled dry air is secured by features scientifically installed.

Low temperatures are obtained by heavy and high-class insulation—tight-fitting doors and automatic locks which prevent leakage of cold air.



Tested and approved by Good Housekeeping Institute

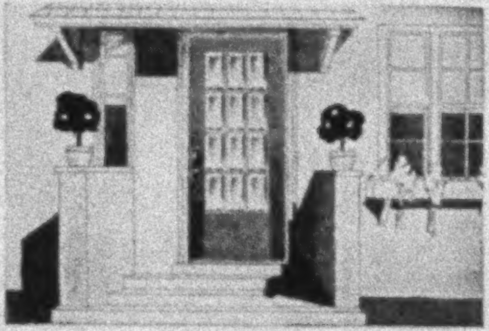
All these things mean ice conservation and small ice cost.

The "Monroe" is not sold in stores. We ship it from factory—freight prepaid—on 30 days' trial.

GET OUR FREE BOOK

It tells many "hot weather" food facts—and how you may judge the "Monroe." It will measure up fully to all of your requirements. There is no obligation. Your name and address will bring the book promptly.

Monroe Refrigerator Co.
244 Benson St., Lockland, Ohio



Have Trouble-Proof Doors

In choosing doors for your new or re-modeled home, remember this: There's constant satisfaction and real economy in the permanence, beauty and correct construction of

MORGAN DOORS

"Built to Stay Fit for a Lifetime"

—the only doors that can't give trouble because the only doors with the *All White Pine Core* that prevents warping, swelling and sticking.

In the extensive collection of Morgan designs are the very doors you've longed for—doors for every taste—every architectural requirement. These doors of distinction are really least expensive in the end because trouble-proof and enduring.

The name "MORGAN" on top rail is your guarantee of value.

Write for this Superb Book "The Door Beautiful," packed with vital information for home owners and builders. FREE.

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Factory: Morgan Co., Oshkosh, Wis. *Eastern Branch:* Morgan Millwork Co., Baltimore. *Displays:* 6 E. 39th St., New York; 309 Palmer Building, Detroit. *Building Exhibits:* Insurance Exchange, Chicago; Soo Line Building, Minneapolis.

If your Dealer hasn't Morgan Doors, write us

The Door Beautiful

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SEE

Yellowstone National Park *This Summer*

Geysers, canyons, mountains, colored terraces, paint pots, animals, rivers, lakes, falls, etc. The greatest wonderland and natural museum of the world. Excellent large hotels; comfortable camps. Start your tour at Gardiner Gateway, the original, logical and only northern entrance, reached only by the

Northern Pacific Railway

Through trains to Yellowstone National Park, Rainier National Park, beautiful Puget Sound and the North Pacific Coast. Scenery unexcelled—three ranges of mountains, including the American Rockies and Cascades. **Dining car service internationally popular. The Route of the Great Big Baked Potato.**

Connections at Seattle, Tacoma and Portland with steamship lines and Shasta Route for California points, **Great Northern Pacific S. S. Co.'s "Palaces of the Pacific"** between Portland-Astoria and San Francisco.

Send for free travel literature and details.

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"SEE AMERICA"

Send 5c for a collection of Wonderland Poster Stamps; a dozen different sets, 5c per set.

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an ideal vacation and rest

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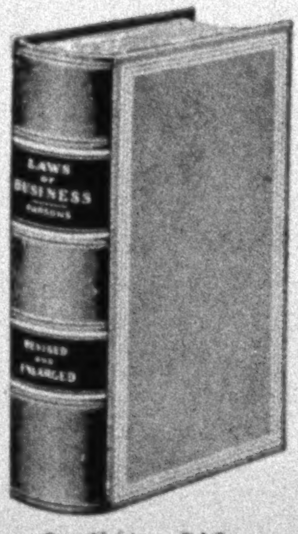
LAWS OF BUSINESS



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The invaluable companion of every one *in* business, every one who *does* business, every one needing knowledge *about* business; every one who holds property or wishes to hold it; that is, all the world.

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Sent by prepaid express, on examination for ten days. If what we claim, remit **$3.50** in payment; if not wanted we will send stamps for return.

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Alaska

ATLIN AND THE YUKON

But to really know and appreciate the inexpressible scenic grandeur of this Northland and enjoy its ideal summer climate—its flowers and sunshine—you must see more than the shores. The advice of travelers who know is—

"Go Beyond The Shores"

See the strangely fascinating interior by modern trains and steamers. See the Atlin Lake Country "The Beauty Spot of the World." Sail down the ever interesting Yukon through the Five Finger Rapids to Dawson in the Klondike—or on down crossing and recrossing the Arctic—where the sun shines at midnight—to Fairbanks and Nome and return via Seward Valdez and Cordova. Truly a trip of a lifetime.

Frequent sailings—exceptionally good meals and service.

Early reservations essentials. Write now for our interesting booklets.

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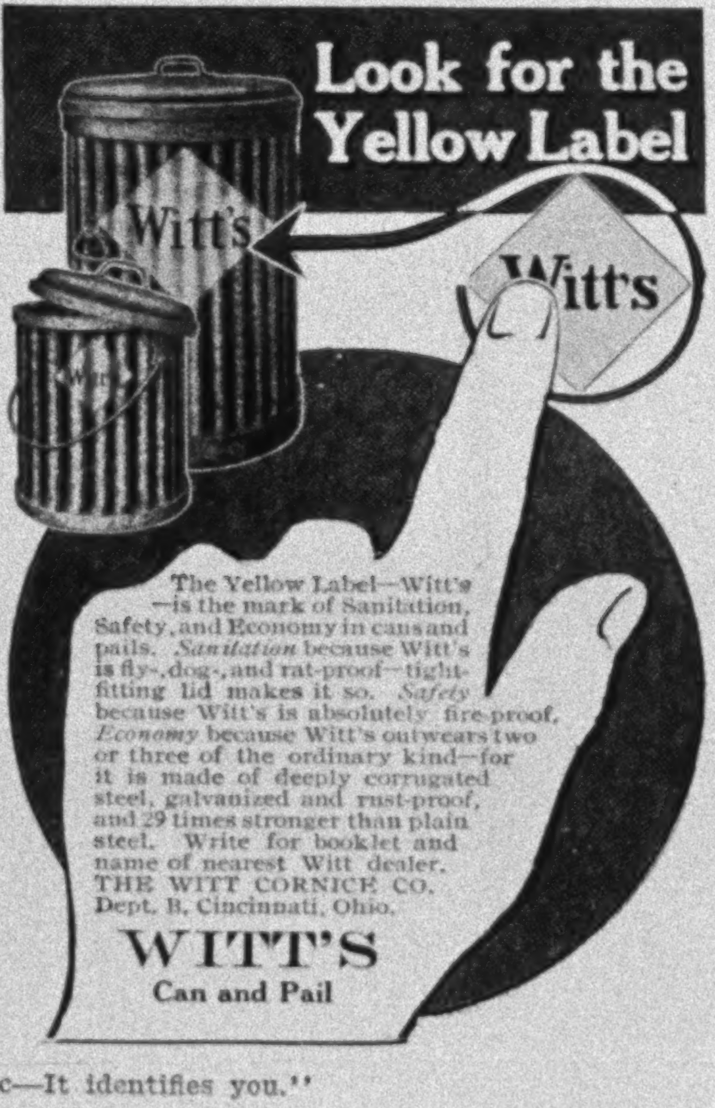

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The Yellow Label—Witt's—is the mark of Sanitation, Safety, and Economy in cans and pails. *Sanitation* because Witt's is fly-, dog-, and rat-proof—tight-fitting lid makes it so. *Safety* because Witt's is absolutely fire-proof. *Economy* because Witt's outwears two or three of the ordinary kind—for it is made of deeply corrugated steel, galvanized and rust-proof, and 29 times stronger than plain steel. Write for booklet and name of nearest Witt dealer.
THE WITT CORNICE CO.
Dept. B, Cincinnati, Ohio.

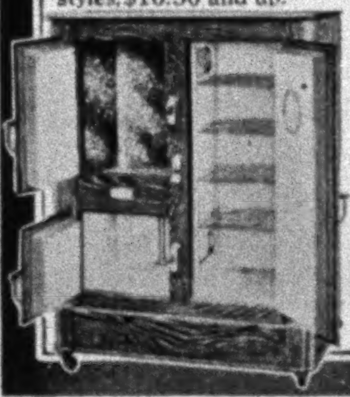
WITT'S
Can and Pail

One Million Homes Have Leonard Cleanable Refrigerators

Like a Clean China Dish

More "Leonard" Cleanable Refrigerators are sold every year than any other make. Lined with one piece of real porcelain enamel on steel. Keeps food in ice-cold, fresh circulating air. Awarded **FIRST PRIZE** at San Francisco Exposition.

Sold by best dealers everywhere. Style shown No. 4405, size 34x20x47; price, $35; freight paid as far as Ohio and Mississippi Rivers; 50 other styles, $16.50 and up.



FREE BOOK tells why a million housewives bought Leonard Refrigerators.

Write today.

GRAND RAPIDS REFRIGERATOR CO.
209 Clyde Park Avenue
Grand Rapids
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"Two minutes saves each tree

Use Tree Tanglefoot

on Shade and Orchard Trees against Gypsy, Brown-tail, and Tussock Caterpillars, Canker Worms, Climbing Cut Worms, and Ants. It is equally effective against any crawling insects.

Band Trees About Two Weeks Before Insects Appear, to Get Best Results

Easily applied with wooden paddle. One pound makes about 10 lineal feet of band. One application stays sticky 3 months and longer—outlasting 10 to 20 times any other substance. Remains effective rain or shine. Won't soften—won't run or melt, yet always elastic, expanding with growth of tree. No mixing; simply open can and use. Will not injure trees.

For Tree Surgery

Tree Tanglefoot is superior to anything on the market—it is the best application after pruning or trimming. It will water-proof the crotch of a tree or a cavity or wound in a tree when nothing else will do it.

Sold by All First-Class Dealers

1-lb. cans, 35c; 3-lb. cans, $1.00; 10-lb. cans, $3.00; 20-lb. cans, $5.50, and 25-lb. wooden pails, $6.75.

Write today for illustrated booklet on Leaf-eating Insects. Mailed free. (55)

THE O. & W. THUM COMPANY
136 Straight Avenue Grand Rapids, Mich.
Manufacturers of Tanglefoot Fly Paper and Tree Tanglefoot

Are you really a judge of cigarettes?

Have you tried a good many varieties in the search for the one cigarette which will be distinctive enough to stand out from the crowd?

The wider and more varied your experience, the more probably Rameses will appeal to you.

The "Aristocrat of Cigarettes" has a distinction and unforgettable character of fragrance which makes it the choice of men of discrimination.

They like its flavor, but more than that they approve of its radical and vital difference from the regular run of brands. It is itself an individual—unmistakable—character-marked.

And nobody ever changes from Rameses.

STEPHANO BROS., Inc.
PHILADELPHIA

JOHN DAVEY
Father of Tree Surgery

To whom will you entrust your priceless trees?

—to tree surgeons whose methods are scientifically accurate and mechanically perfect, who save your trees without guessing or experiment?

—to tree surgeons made absolute masters through long study and practical training, before given any responsibility?

—to tree surgeons who are MEN—*picked* men—chosen because they love trees, and because they are honest, honorable, and intelligent!

—to tree surgeons who are backed by a responsible business house which has but one standard—*quality-first work, always!*

—to tree surgeons who were selected officially by the U. S. Government, after exhaustive investigation, because they are best!

—to tree surgeons whose record of successful performance spans a period of many years!

—to *Davey Tree Surgeons*—the only tree surgeons who measure up to these standards of super-excellence.

Take the dependable and satisfying course, and go to the Davey organization. Learn the real condition and needs of your trees from this expert source without charge. Every year of neglect adds 10% to 25% to the cost of saving trees. Write *today* for free examination and booklet illustrating Davey Tree Surgery.

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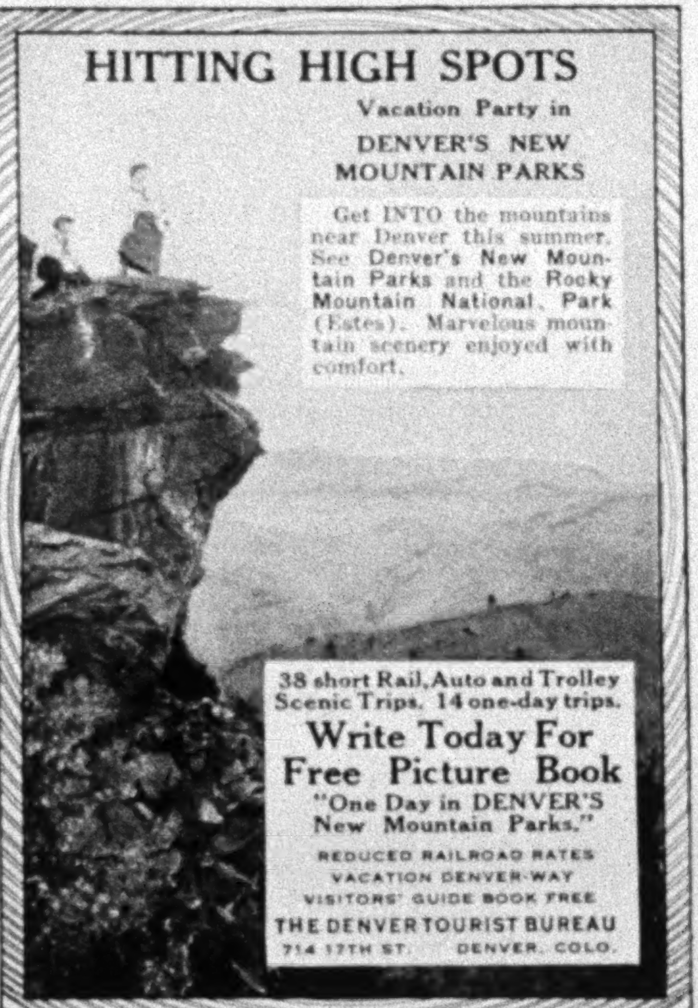

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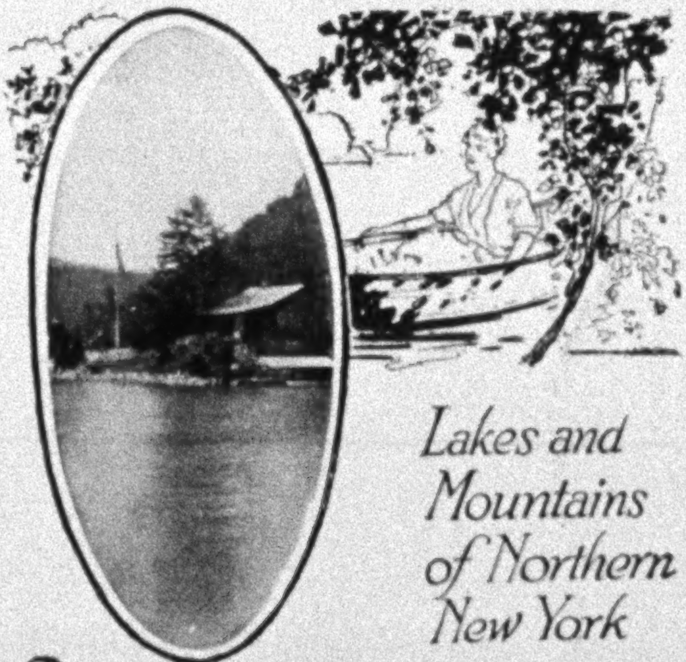

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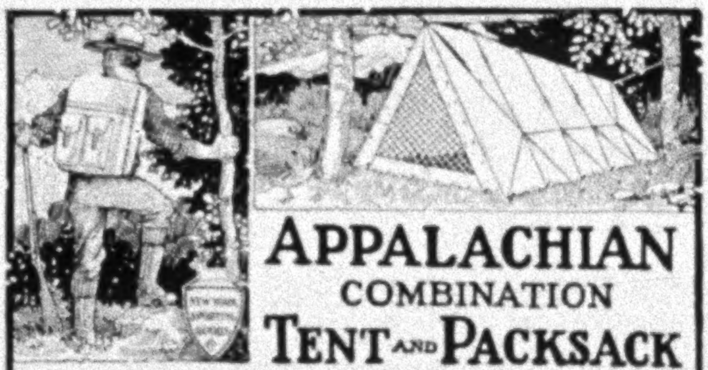

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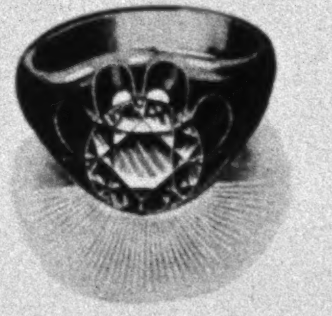

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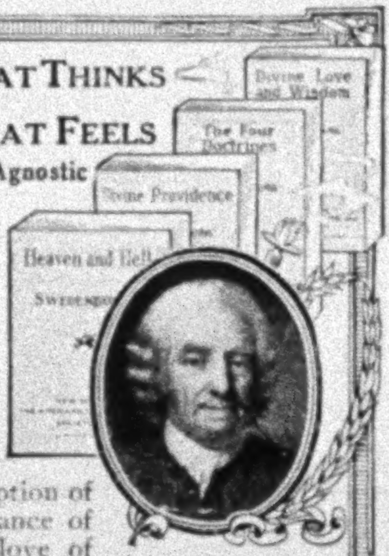

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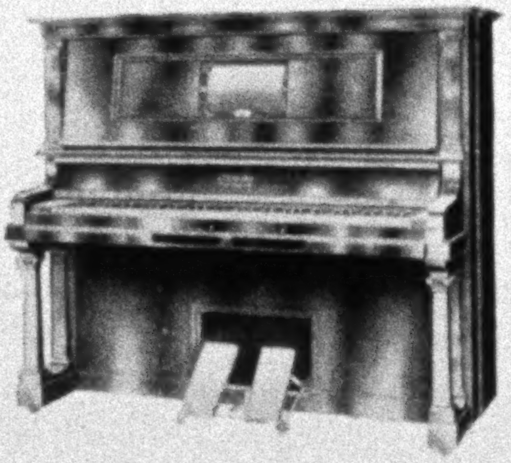

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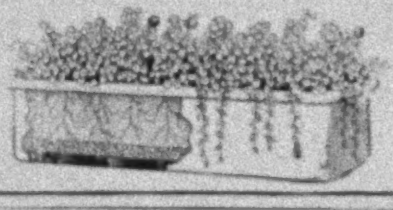

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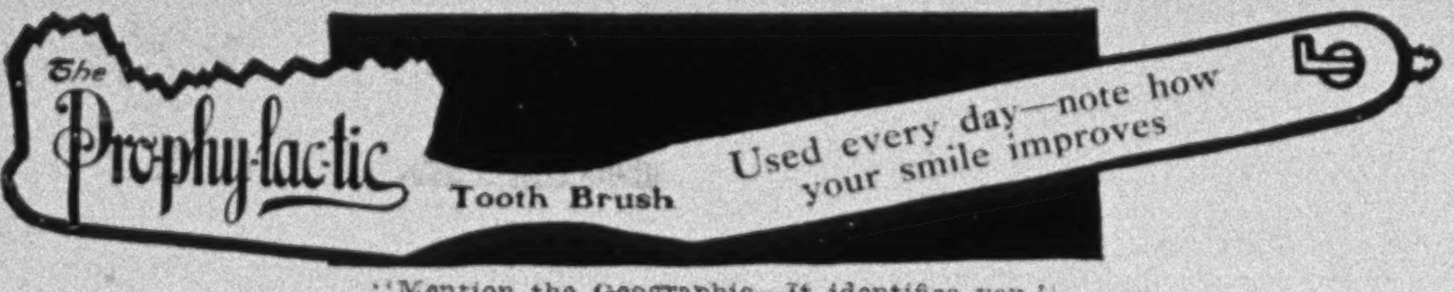
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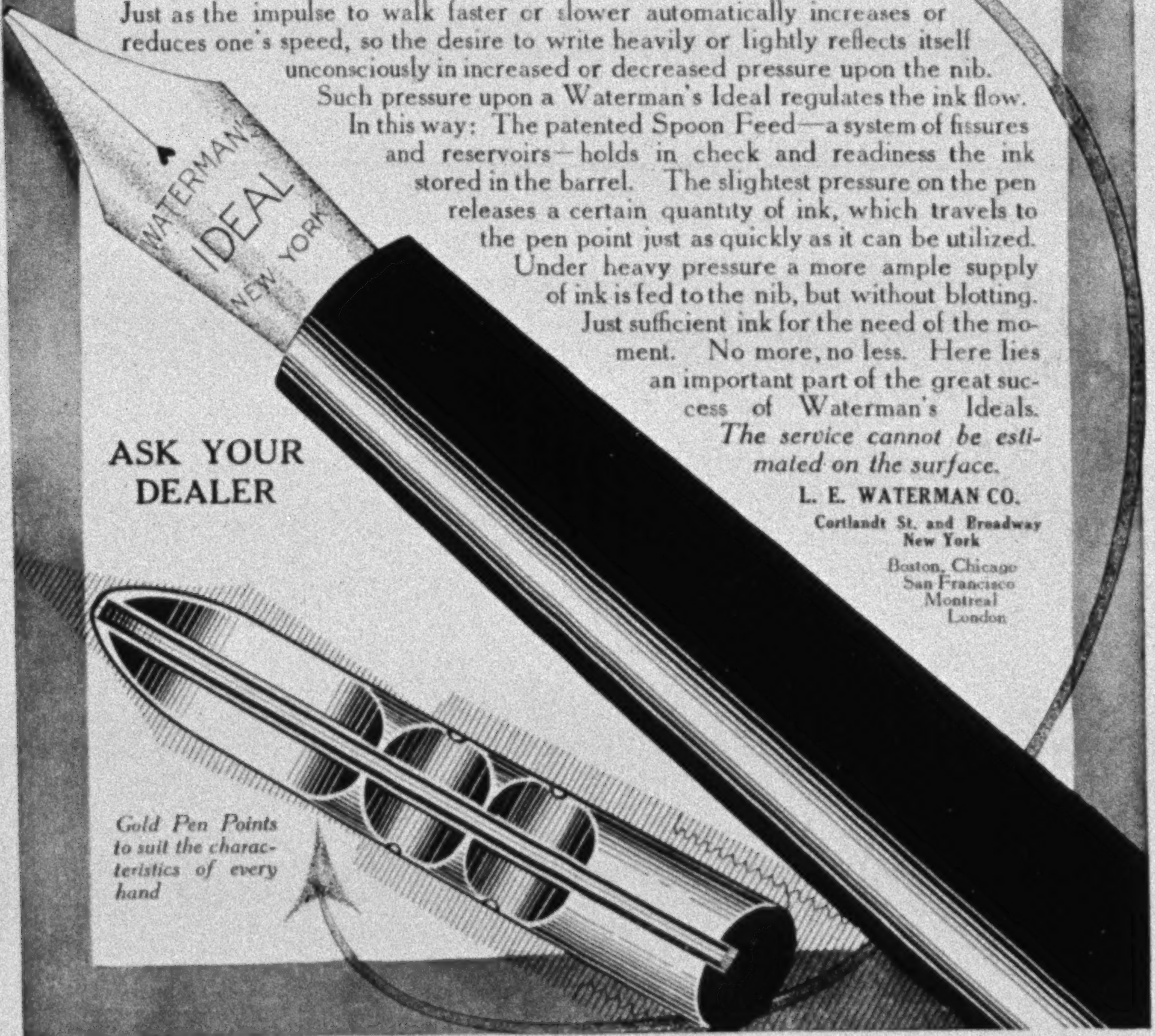

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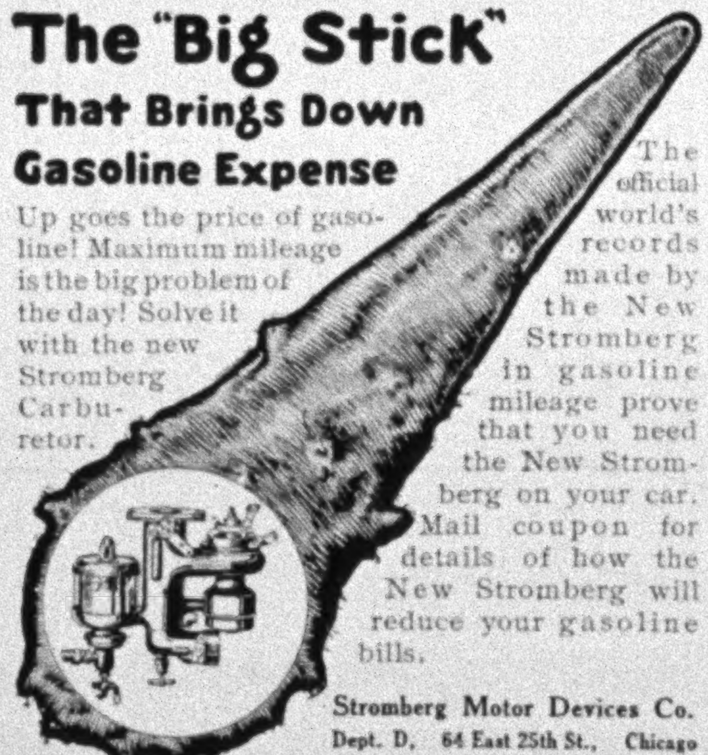

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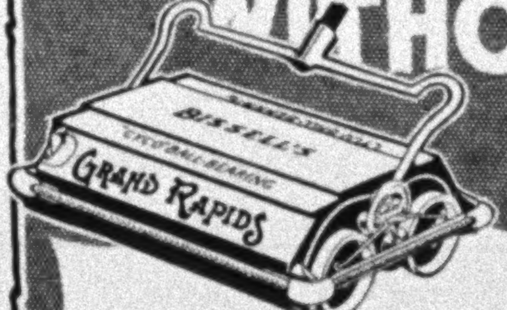

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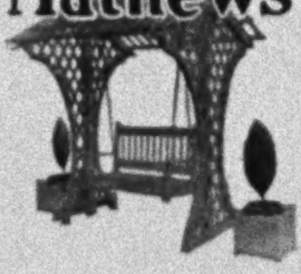

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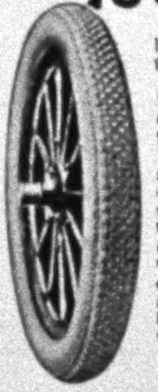

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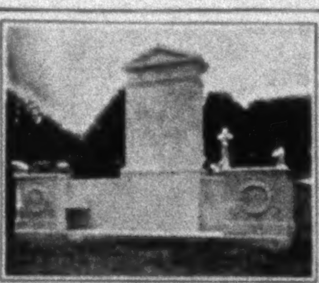

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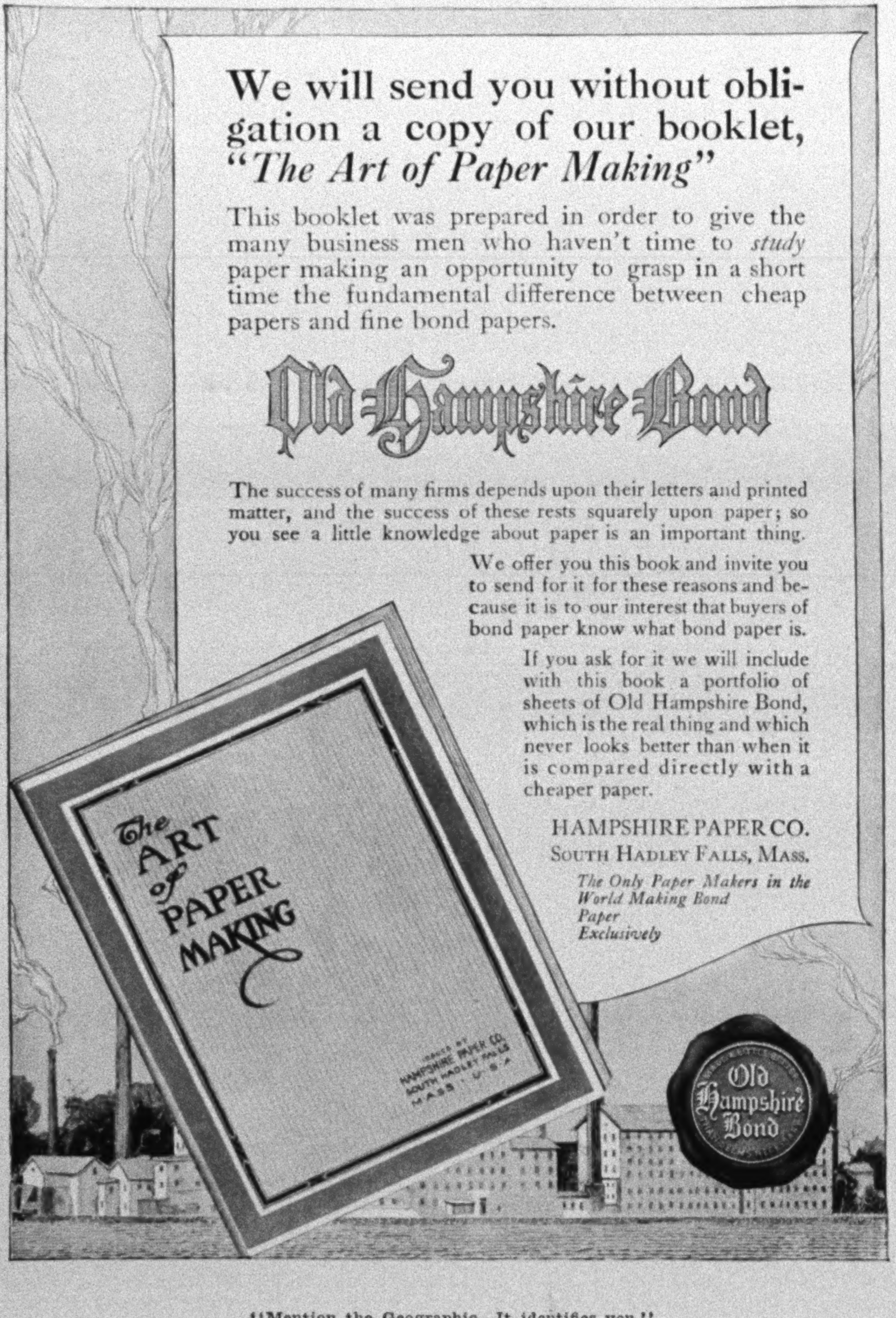
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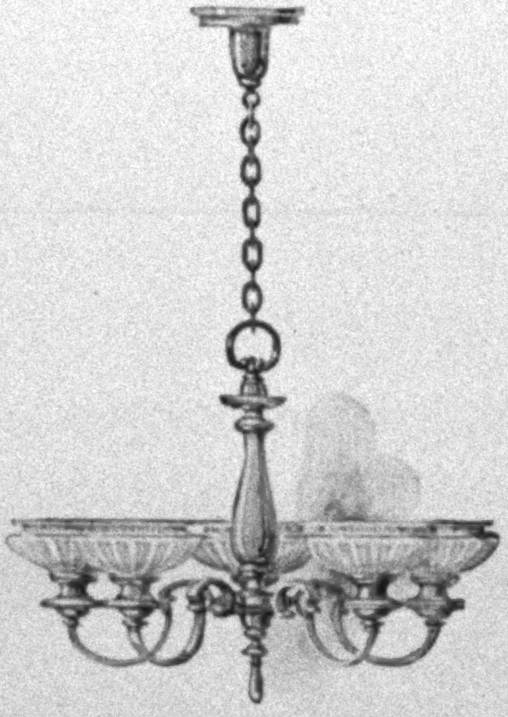

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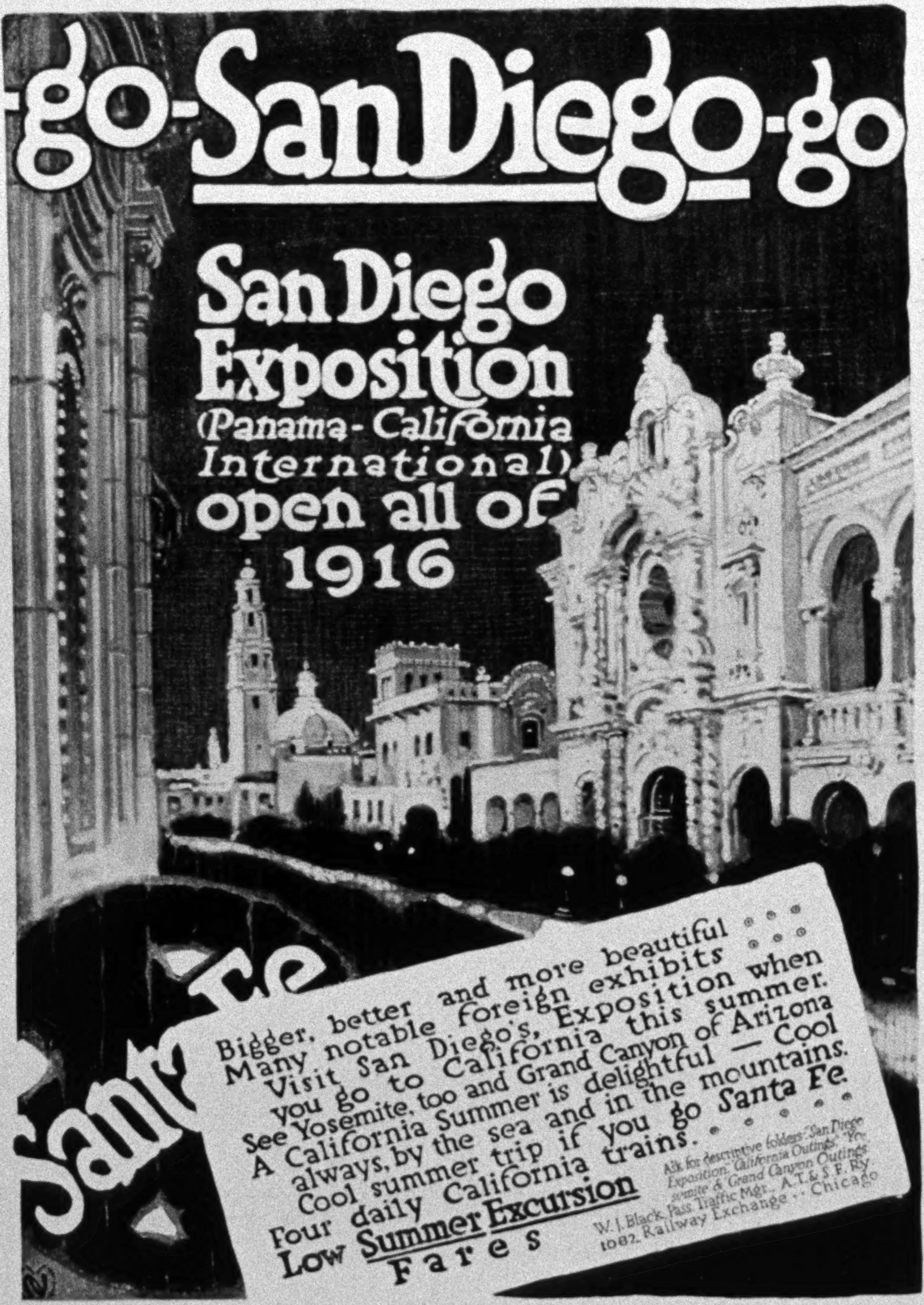

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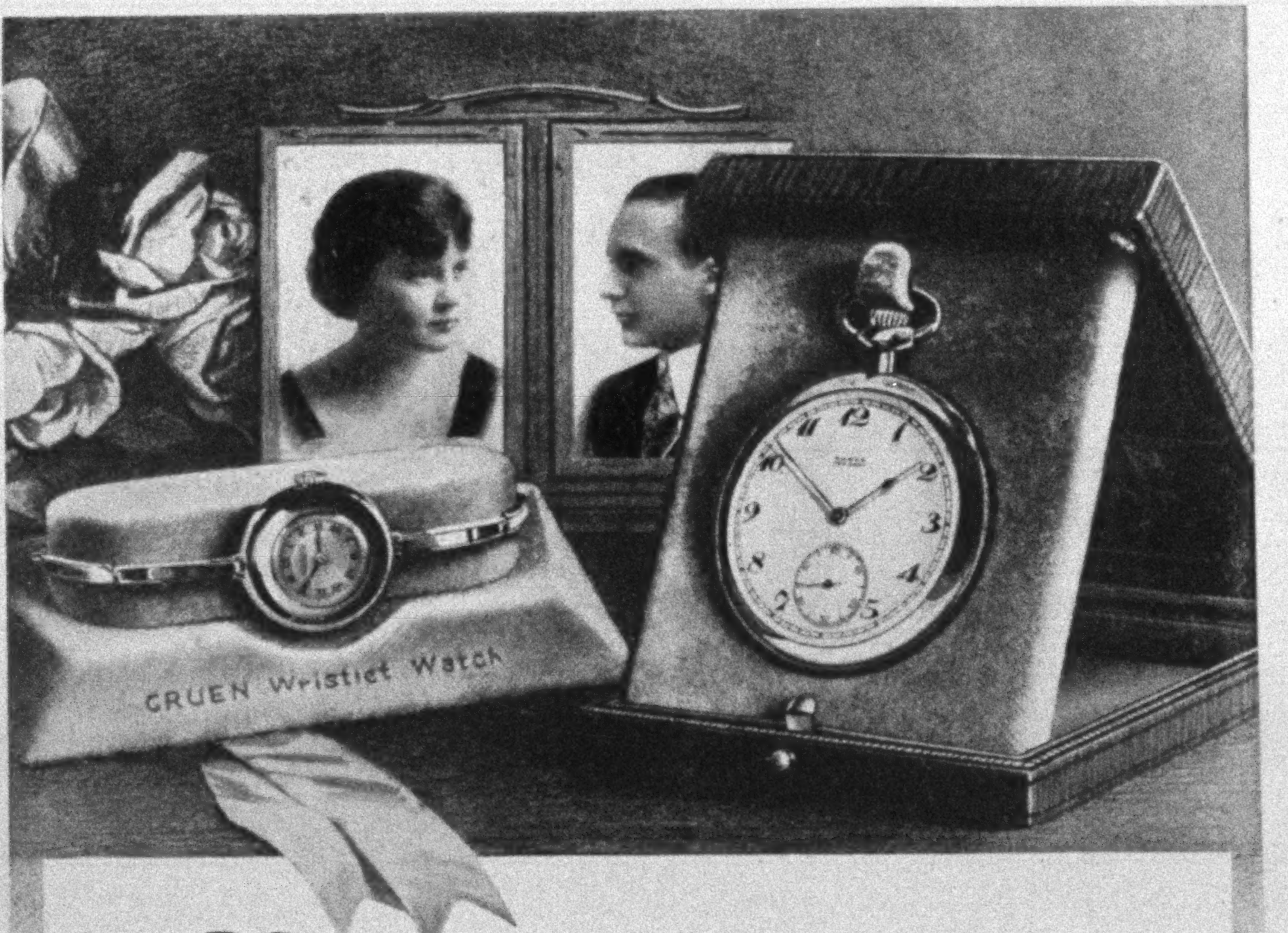

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